Chapter 13 Supplemental Information

Demo Types

When stored in the ZR's memory, or on an EXP expansion board, demos will appear in alphabetical order within these categories:

AMBIENT	JAZZ		
BIG-BAND	LATIN	LATIN	
BLUES	NEW-AGE		
CLASSICAL	POP		
_COUNTRY-	RAP		
DANCE	ROCK		
FOLK	SOUL-R&B		
FUNK	SOUNDTRACK		
FUSION	TECHNO		
HIPHOP	WORLD		
HOLIDAY	WORSHIP		
INDUSTRY	*UTILITY		
ISI AND	*OTHER		

RhythmFinder Types

Rhythms will appear in alphabetical order within each of these categories:

Demo-designated rhythms in alphabetical order.
Rhythms found on an expansion board (in numerical order).
Rhythms stored in ROM memory (in numerical order).
Rhythms stored in both FLASH and DRAM memory (in numerical order).
All rhythms, in alphabetical order.
Ambient rhythms.
Rhythms for a variety of ballad styles.
Rhythms for whatever blues you've got.
Assorted country & western rhythm styles.
Move the floor with these dance rhythms.
Complex, syncopated rhythms designed for funk.
Hip hop rhythm styles.
Carribean-style rhythms.
Variety of jazz-based rhythms.
Energetic latin rhythm grooves.
Uncommon meter rhythms.
Top-forty based drum rhythms.
Take it to the top with these rap rhythms.
The ZR offers a variety of driving rock rhythms.
Rhythms optimized for soul and rhythm and blues.
Assorted rhythms from around the world.
Utility rhythms (e.g., default rhythms used for programming and other special purposes).
Rhythms that fall into no appropriate category.
Use this type to define your own special purpose rhythms ENSONIQ rhythms will never be released with a type of CUSTOM.

SoundFinder™ Types

Here is a list of the available SoundFinder categories. If there are no sounds of a particular type, the type will not appear in the list of types:

USER-SND	Sound type for sounds that you want quick access to. These sounds also appear in their appropriate SoundFinder musical instrument type list.
DEMO-SND	Demo sounds are designed to demonstrate the scope of sounds in the ZR-76. Whenever this is selected, the first sound in the type will be selected; the ZR will not reselect the last sound selected in the DEMO-SND type. Demo sounds also appear in their appropriate Sound Type list.
EXP-SND	Expansion board sounds.
DRM-SND	ROM drum key sounds.
GM-SND	Includes both ROM General MIDI sounds, and GM/GS drum kit sounds
ROM-SND	All sounds in ROM.
INT-SND	All FLASH and DRAM sounds.
ALL-SND	All sounds. The SongEditKit appears in ALL-SND.
BASS	Acoustic and electric basses.
BASS-SYN	Synth basses, and processed electric basses with a "synthy" quality.
BELL BRASSECT	Acoustic and synth bell sounds, both pitched (e.g., glockenspiel, celesta). and non-pitched (e.g., church bells). Trumpet, trombone, tuba, French horn, saxophone, and mixed brass sections (including sampled sections) and small ensembles
	(with more than one distinct pitch/"player" on a single key).
BRASSOLO	Solo brass (e.g., trumpet, trombone, tuba, French horns).
DRUM-KIT	Drum kits that use the ENSONIQ drum map.
DRMKITGM	Drum kits that use the General MIDI drum map. Steel, nylon, and gut-stringed acoustic guitars.
GUITAR-A GUITAR-E	Clean electric quitars and distortion quitars.
HITS	Orchestra hits.
KEYS	Other stringed keyboard sounds (e.g., harpsichord and clavinet).
LAYERS	Unnatural layered combinations of acoustic elements (e.g., a bass harmonic layered with a string section), excluding
	pianos/electric-pianos/organs layered with other sounds in which the piano/electric-piano/organ element is dominant. Also excludes multi-instrumental orchestral layers.
LOOPGRUV	Looped, repeating musical passages and drum rhythm loops (sampled or wave-sequenced) that play on one key.
MALLET	Tuned mallet-struck percussion instruments (e.g., marimba, xylophone, timpani, steel drum, log drum).
ORCHSTRA	Multi-instrumental orchestral Sounds (e.g., mixed strings/brass/woodwinds/reeds/orchestral percussion) layered with one another.
ORGAN-A	Acoustic pipe and pump organs.
ORGAN-E	Electric and electronic organs.
ORGANLYR	Any organs layered with other sounds in which the organ element is dominant.
PERC-KIT	Percussion kits that use either the ENSONIQ or General MIDI percussion maps.
PERCSOLO	Solo untuned percussion (e.g., taiko, synth-tom) includes most drum key sounds.
PIANO-A	Acoustic pianos, honky-tonk, toy pianos, and piano forte.
PNOLYR-A	Acoustic pianos layered with other sounds in which the acoustic piano element is dominant.
PIANO-E	Electric and electronic piano sounds, and electric pianos layered with acoustic pianos.
PNOLYR-E	Electric pianos layered with other sounds in which the electric piano element is dominant.
PLUCKED	Plucked strings (e.g., harps, banjo, dulcimer, sitar), pizzicato strings, and other plucked instruments (e.g., kalimba). Solo saxophones.
SAX-SOLO SOUND-FX	Realistic sound effects (e.g., broken glass, animal sounds, record scratches) and entirely non-pitched fantasy and chaos sound effects.(e.g., spacecraft, environments)
SPLITS	Combination keyboard splits of two or more different types of sounds. Also includes splits of similar sounds that have discontiguous key ranges (e.g., a bassoon/oboe split that covers the natural ranges of both instruments).
STRGSECT	Bowed string sections (including sampled sections) and small string ensembles (with more than one distinct pitch/"player" on a single key).
STRGSOLO	Bowed solo strings (e.g., violin, viola, cello).
SYN-COMP	Non-vintage, sustaining and non-sustaining, polyphonic synth sounds with a pitched or non-pitched, highly obtrusive attack component that lend themselves toward comping (i.e., you can always play successive 1/8 note chords with these funky sounds).
SYN-LEAD	Monophonic lead synth sounds (excluding monophonic synth basses).
SYN-PAD	Non-vintage, sustaining, polyphonic synth sounds with a pitched, less obtrusive attack component, and an appropriate release, that lend themselves toward pad playing.
SYN-VINT	Polyphonic, signature vintage "analog" synth sounds (excluding monophonic vintage synth leads and synth basses). Normally these are named after the synth that they evoke.
SYNOTHER	Other types of pitched, polyphonic, hybrid synth sounds with sustaining, disparate components (e.g., sample & hold sync sounds).
VOCALS	Vocal sounds (e.g., choirs, synth-vox).
WINDREED	Solo woodwinds/reeds (e.g., flute, oboe, bassoon, clarinet, recorder, English horn, ocarina, bandneon, shakuhachi, bagpipes, harmonica, accordion, melodica, didjeridoo).
*UTILITY	Utility resources (e.g., default template sounds used for programming and other special non-musical purposes).
*CUSTOM	Use this type to define your own special purpose sounds when created with the Unisyn sound editing software. The SongEditKit will always be assigned to CUSTOM. ENSONIQ sounds will never be released with a type of CUSTOM.
MIDI-OUT	Use this type for controlling other external MIDI devices. Each note you play, every controller you use, can be transmitted via MIDI. In any situation where you would otherwise select a local ZR-76 sound, you can transmit MIDI instead, by selecting one of the special MIDI-OUT sounds. For more information, see "Sending and Receiving MIDI" in Chapter 4.

List of Wave Names and Classes

Here is a list of the waves built in to the ZR-76:

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KEYBOARD	BRASS+HORNS	DRUM-SOUND	DRUM-SOUND cont'd.	PERCUSSION	WAVEFORM
GRAND PIANO	TRUMPET	ACOUSTC KICK	RING SNARE B	AGOGO	SAWTOOTH
GRAND MED HI	MUTE TRUMPET	BIG KICK	RING SNARE C	BONGO	SINE WAVE
GRAND MED LO GRAND SOFT	FLUGELHORN SOLO FR HORN	BOOM KICK BRIGHT KICK	RING SNARE D TECHNO SNARE	CABASA CASTANETS	SQUARE WAVE TRIANGLE WAVE
PIANO THUD	TROMBONE	DANCE KICK	SIDESTICK 3A	CLAVE	ANALOG WV 1
PNO HAMMER UP	POP BRASS SEC	ELEC KICK	SIDESTICK 3A	CLICK	ANALOG WV 2
PNO HARP NOIS	FR HORN SECT	FAT KICK	BRUSH SWISH≥	CONGA HIGH	ANALOG WV 3
TINE EPNO A	SYNTH BRASS	GATED KICK	BRUSH SWISH ₃	CONGA LOW	ANALOG WV 4
TINE EPNO B		JAZZ KICK	BRUSH SWISH4	CONGA MUTE	ANALOG WV 5
TINE EPNO C	WIND+REEDS	LOOP KICK	DRY TOM HI	COWBELL	ANALOG WV 6
TINE EPNO D	TENOR SAX	MUFF KICK	LIVE TOM 2 A	COWBELL STICK	ANALOG WV 7
TINE EPNO E	ALTO SAX	PROCESSD KICK	LIVE TOM 2 B	CUICA	ANALOG WV 8
TINE EPNO F	SOPRANO SAX	PUNCHY KICK	LIVE TOM 2 C	FINGER SNAPS	DIGITAL WV 1
DIGI PIANO DIGI PNO SOFT	SAX AIR CHIFF	RAP KICK REAL KICK	PURE TOM A PURE TOM B	GUIRO HANDCLAPS	DIGITAL WV 2 BELL WAVE 1
FM EPNO A	CHIFFLUTE	RESO KICK	BIG TOM 1 A	JAWHARP	BELL WAVE 2
FM EPNO B	FLUTE	SYNTH KICK 1	PURE TOM C	MARACAS	BELL WAVE 3
FM EPNO C	OCARINA	SYNTH KICK 2	BIG TOM 1 B	SHAKER	BELL WAVE 4
FM EPNO D	PAN FLUTE	TIGHT KICK	BIG TOM 1 C	SLEIGHBELL	BELL WAVE 5
WURLIE HIVEL	OBOE	COM/GATE SNR	BIG TOM 1 D	SPOONS	BELL WAVE 6
WURLIE LOVEL	ENGLISH HORN	CONCERT SNARE	BIG TOM 2 A	TAIKO	BELL WAVE 7
HARPSICHORD CLAVINET	BASSOON CLARINET	CRACK SNARE DANCE SNARE	BIG TOM 2 B BIG TOM 2 C	TAMBOURINE TIMBALI	BIG BELL WF SYNTH BELL
FM CLAV	ACCORDION 1	ELEC SNARE	BIG TOM 2 D	TRIANGLE	VOCAL WF 1
CELESTE	ACCORDION 2	GATED POP SNR	BIG TOM 3 A	VIBRASLAP	VOCAL WF 2
ORG-775305004	HARMONICA	GM SNARE 1	BIG TOM 3 B	WHISTLE	VOCAL WF 3
ORG-845351402	CONCH SHELL	HIPHOP SNARE	BIG TOM 3 C	WOODBLOCK	VOCAL WF 4
ORG-875434578	RECORDER	POP SNARE	BIG TOM 3 D	SYN CLAPS	VOCAL WF 5
ORG-875645332		RAP SNARE	LIVE TOM 1 A	SYN COWBELL	VOCAL WF 6
ORG-888000000	VOCAL-SOUND	REAL SNARE	LIVE TOM 1 B	SYN MARACAS	DOUBLE REED
ORG-888808008	VOCAL AAHS	RIMSHOT	LIVE TOM 1 C	SYNTH CLAVE	REED WF
ORG-888856444 ORG-888880880	VOCAL OOHS BREATHY OOH	ROCK SNARE SYNTH SNARE	ROCK TOM 1 A ROCK TOM 1 B	SYNTH KISS WIND CHIME	SINGLE REED PIANO BS WF
ORGAN WAVE 1	SYNTH VOX AAH	SNARE ROLL	ROCK TOM 1 C	CACTUS LOOP	PIANO WF
ORGAN WAVE 2	VOCAL AIR	SIDESTICK 1	ROCK TOM 2 A	NUT RATTLE LP	E-BASS WF 1
PERC ORGAN 1	DOO ATTACK	SIDESTICK 2	ROCK TOM ≥ B	RAINSTICK	E-BASS WF 2
PERC ORGAN 2	ONE	STICK CLICK	ROCK TOM 2 C	EQ CABASA 1	
ROTARY ORGAN	TWO	BRUSH HIT		EQ CABASA 2	INHARMONIC
SYNKEY WAVE	THREE	BRUSH SLAP	CYMBALS	CONGA HEEL	NOISE
CHURCH ORGAN	FOUR	BRUSH SWISH	CLOSED HAT 1	THIN MARACA	SPECTRUM
					AID LOOD
PIPE ORGAN		BRUSH TAP	CLOSED HAT 2	SHEKERE DN	AIR LOOP
REED ORGAN	BASS-SOUND	BRUSH TOM	CLOSED HAT 3	SHEKERE UP	BIG BELL
REED ORGAN CLINK	STANDUP BASS	BRUSH TOM DRY TOM	CLOSED HAT 3 SYN CLOSEHAT	SHEKERE UP TAMBO DOWN	BIG BELL CRYSTAL
REED ORGAN CLINK ORG KEYCLICK	STANDUP BASS STANDUP BS 2	BRUSH TOM DRY TOM ROOM TOM	CLOSED HAT 3 SYN CLOSEHAT RAP HAT 1	SHEKERE UP TAMBO DOWN TAMBO UP	BIG BELL
REED ORGAN CLINK ORG KEYCLICK MOOG LEAD	STANDUP BASS STANDUP BS 2 STANDUP BS 3	BRUSH TOM DRY TOM ROOM TOM SYNTH DRUM	CLOSED HAT 3 SYN CLOSEHAT RAP HAT 1 RAP HAT 2	SHEKERE UP TAMBO DOWN	BIG BELL CRYSTAL TEXTURE
REED ORGAN CLINK ORG KEYCLICK	STANDUP BASS STANDUP BS 2 STANDUP BS 3 FRETLESS BASS	BRUSH TOM DRY TOM ROOM TOM SYNTH DRUM SYNTH RIM	CLOSED HAT 3 SYN CLOSEHAT RAP HAT 1 RAP HAT 2 OPEN HAT	SHEKERE UP TAMBO DOWN TAMBO UP TIMBALI RIM	BIG BELL CRYSTAL TEXTURE TRANSWAVE
REED ORGAN CLINK ORG KEYCLICK MOOG LEAD PAD SYNTH	STANDUP BASS STANDUP BS 2 STANDUP BS 3 FRETLESS BASS FINGER BASS 1	BRUSH TOM DRY TOM ROOM TOM SYNTH DRUM SYNTH RIM DEEP KICK A	CLOSED HAT 3 SYN CLOSEHAT RAP HAT 1 RAP HAT 2 OPEN HAT SYN OPEN HAT	SHEKERE UP TAMBO DOWN TAMBO UP TIMBALI RIM TUNED-PERC	BIG BELL CRYSTAL TEXTURE TRANSWAVE AAH OOH XW
REED ORGAN CLINK ORG KEYCLICK MOOG LEAD PAD SYNTH STRING-SOUND	STANDUP BASS STANDUP B5 2 STANDUP B5 3 FRETLESS BASS FINGER BASS 1 FINGER BASS 2	BRUSH TOM DRY TOM ROOM TOM SYNTH DRUM SYNTH RIM DEEP KICK A DEEP KICK B	CLOSED HAT 3 SYN CLOSEHAT RAP HAT 1 RAP HAT 2 OPEN HAT SYN OPEN HAT PEDAL HAT	SHEKERE UP TAMBO DOWN TAMBO UP TIMBALI RIM TUNED-PERC VIBRAPHONE	BIG BELL CRYSTAL TEXTURE TRANSWAVE AAH OOH XW ANA BS XWAVE
REED ORGAN CLINK ORG KEYCLICK MOOG LEAD PAD SYNTH	STANDUP BASS STANDUP BS 2 STANDUP BS 3 FRETLESS BASS FINGER BASS 1	BRUSH TOM DRY TOM ROOM TOM SYNTH DRUM SYNTH RIM DEEP KICK A	CLOSED HAT 3 SYN CLOSEHAT RAP HAT 1 RAP HAT 2 OPEN HAT SYN OPEN HAT	SHEKERE UP TAMBO DOWN TAMBO UP TIMBALI RIM TUNED-PERC	BIG BELL CRYSTAL TEXTURE TRANSWAVE AAH OOH XW
REED ORGAN CLINK ORG KEYCLICK MOOG LEAD PAD SYNTH STRING-SOUND NYLON GUITAR	STANDUP BASS STANDUP B5 2 STANDUP B5 2 STANDUP B5 3 FRETLESS BASS FINGER BASS 1 FINGER BASS 2 FINGER BASS 3	BRUSH TOM DRY TOM ROOM TOM SYNTH DRUM SYNTH RIM DEEP KICK A DEEP KICK B DEEP KICK C	CLOSED HAT 3 SYN CLOSEHAT RAP HAT 1 RAP HAT 2 OPEN HAT SYN OPEN HAT PEDAL HAT CRASH CYMBAL	SHEKERE UP TAMBO DOWN TAMBO UP TIMBALI RIM TUNED-PERC VIBRAPHONE MARIMBA	BIG BELL CRYSTAL TEXTURE TRANSWAVE AAH OOH XW ANA BS XWAVE ANA VOX-X
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List of ZR-76 Sounds

The following is a list of the factory ZR-76 sounds. Sounds will appear in alphabetical order within each SoundFinder type. The list also includes the sound's residency and effect status.

	31		3		
			Jazz Kit-GM	GM 009:032	Various (per key)
BASS			Orch Kit-GM	GM 009:032	
Ac.Bass-GM	GM 008:032	MediumReverb			Various (per key)
		MediumReverb	Pwr. Kit-GM	GM 009:016	Various (per key)
FingBass-GM	GM 008:033		Room Kit-GM	GM 009:008	Various (per key)
Finger Bass	ROM 004:105	18 EQ->Reverb	Std. Kit-GM	GM 009:000	Various (per key)
Fretless	ROM 004:113	Chorus	SynthKit-GM	GM 009:025	Various (per key)
FrtlsBas-GM	GM 008:035	MediumReverb	TeknoKit-GM	GM 009:065	Various (per key)
Guitarron	ROM 004:115	18 EQ->Reverb	GUITAR-A	, -	, , , , , , , , , , , , , , , , , , ,
P-Bass	ROM 004:106	Dry	12-String	ROM 005:003	18 EQ->Reverb
P-Bass Slap	ROM 004:107	Dry	Dbl 6-Strng	ROM 005:004	18 EQ->Reverb
PickBass-GM	GM 008:034	MediumReverb			
			FretNois-GM	GM 008:120	MediumReverb
PickdFretIs	ROM 004:109	Chorus	NylonGtr-GM	GM 008:024	MediumReverb
Picked Bass	ROM 004:108	Dry	NylonGuitar	ROM 005:000	12 Rev->Chorus
SlapBs1-GM	GM 008:036	MediumReverb	Spruce Top	ROM 005:001	18 EQ->Reverb
SlapBs2-GM	GM 008:037	MediumReverb	SteelGtr-GM	GM 008:025	MediumReverb
Switch Bass	ROM 004:110	Dry	SteelString	ROM 005:002	WetReverb
Switch Pop1	ROM 004:111	Dry	GUITAR-E	1101110031002	· · · · · · · · · · · · · · · · · · ·
Switch Pop2	ROM 004:112	Dry		ROM 005:008	37 Dist->DDL->Trem
Uprite Bass	ROM 004:112	LightReverb	Capt.Crunch		
	KOM 004.114	Ligitateverb	Charang-GM	GM 008:084	MediumReverb
BASS-SYN	2011	5 1455 551	Chicken Gtr	ROM 005:012	18 EQ->Reverb
303 Bass	ROM 004:124	29 ResVCF->DDL	CleanGtr-GM	GM 008:027	MediumReverb
Analog Bass	ROM 004:119	o8 NonLinReverb2	Dist.Gtr-GM	GM 008:030	MediumReverb
Big Bottom	ROM 004:126	39 EQ->Comp->Gate	Electric 12	ROM 005:014	WetReverb
Dance Bass	ROM 004:127	LightReverb	FM Jazz Gtr	ROM 005:015	20 DDL->Chorus
GreasySynBs	ROM 004:116	Dry	Gtr.Harm-GM	GM 008:031	MediumReverb
Grumbler	ROM 004:123	22 DDL->Phaser	Jazz Gtr-GM	GM 008:031	MediumReverb
HouseBass1	ROM 004:123	39 EQ->Comp->Gate			
			Mean Mutes	ROM 005:009	MediumReverb
HouseBass2	ROM 004:122	LightReverb	MetalGuitar	ROM 005:013	38 Comp->Dist->DDL
Rap Bass	ROM 004:120	39 EQ->Comp->Gate	Mute Gtr-GM	GM 008:028	MediumReverb
Rogue Bass	ROM 004:118	39 EQ->Comp->Gate	OvDrvGtr-GM	GM 008:029	MediumReverb
Room Bass	ROM 004:125	oo Gated Reverb	Overdrive	ROM 005:011	38 Comp->Dist->DDL
Smack Bass	ROM 004:117	Dry	Pearl Strum	ROM 005:007	27 Dist->Phaser
Synbass1-GM	GM 008:038	MediumReverb	Pedal Steel		
		MediumReverb		ROM 005:019	23 DDL->EQ
Synbass2-GM	GM 008:039	Mediumkeverb	SpagettiGtr	ROM 005:010	MediumReverb
BELL			Tweed&Roto	ROM 005:016	34 RotarySpeaker
Agogo-GM	GM 008:113	MediumReverb	Wak It	ROM 005:020	MediumReverb
Bellmen	ROM 005:102	40 EQ->Chorus->DDL	HITS		
Big Bell	ROM 005:097	32 Chatter Box	Dance Hit 1	INT 001:046	Chorus
Celesta-GM	GM 008:008	MediumReverb	Dance Hit 2	INT 001:047	Chorus
ChurchBells	ROM 005:096	WetReverb	Dance Hit 3	INT 001:047	Chorus
Crystal-GM	GM 008:098	MediumReverb			
			Dance Hit 4	INT 001:049	Chorus
FM Bells	ROM 005:098	19 Spinner->Rev	Dance Hit 5	INT 001:050	Chorus
Gamelan+Arp	ROM 005:105	MediumReverb	House Vox	INT 001:051	MediumReverb
Glockens-GM	GM 008:009	MediumReverb	Orch Hit	DRM 018:106	MediumReverb
Glocknspiel	ROM 005:104	o2 Hall Reverb	Orch.Hit-GM	GM 008:055	MediumReverb
Handbell	ROM 005:101	WetReverb	Rave m7maj7	INT 001:045	Chorus
Little Bell	ROM 005:100	WetReverb	Rave Vox	ROM 005:031	Chorus
Musicbox-GM	GM 008:010	MediumReverb	Slam Orch	DRM 018:107	LightReverb
Octave Bell	ROM 005:103	MediumReverb		DIAM 018.107	Lightneverb
			KEYS		
Pixie Bell	ROM 005:095	MediumReverb	AutoWaḥClav	ROM 004:059	28 Dist->AutoWah
TinklBel-GM	GM 008:112	MediumReverb	ChatterClav	ROM 004:062	32 Chatter Box
Trans Bell	ROM 005:099	MediumReverb	Clavicle	INT 001:041	22 DDL->Phaser
Tubular-GM	GM 008:014	MediumReverb	Clavinet	ROM 004:061	15 Chorus->Rev
BRASSECT			Clavinet-GM	GM 008:007	MediumReverb
Brass 1-GM	GM 008:061	MediumReverb	Funky Clav	ROM 004:063	27 Dist->Phaser
Fr.Horn-GM	GM 008:060	MediumReverb		GM 008:006	MediumReverb
Fr.HornSect	ROM 005:057	WetReverb	HarpsiGM		MediumReverb
GreaseBrass			Harpsichord	ROM 005:094	Mediumkeverb
	ROM 005:056	os Large Plate	LAYERS		
Mute Swells	ROM 005:058	15 Chorus->Rev	ChoirStrngs	ROM 005:043	WetReverb
Pop Brass	ROM 005:055	MediumReverb	Lush GtrPad	ROM 005:006	MediumReverb
StereoBrass	ROM 005:054	MediumReverb	Mute+Flute	ROM 005:067	o6 Small Plate
SynBrs.1-GM	GM 008:062	MediumReverb	Nvlon Pad	ROM 005:005	15 Chorus->Rev
SynBrs.2-GM	GM 008:063	MediumReverb	Sitar Layer	ROM 005:018	17 Phaser->Rev
BRASSOLO			Steel Pad	INT 001:000	15 Chorus->Rev
Cornet	ROM 005:060	MediumReverb	LOOPGRUV	1111 001.000	i) Cilorus /NCV
Flugelhorn	ROM 005:062	MediumReverb		DOM cor:	oz Noplindo:
French Horn	ROM 005:062 ROM 005:063	WetReverb	Multi Perk	ROM 005:114	o7 NonLinReverb1
			TakeMyWife	INT 001:064	MediumReverb
MuteTrpt-GM	GM 008:059	MediumReverb	MALLET		
MuteTrumpet	ROM 005:064	02 Hall Reverb	Balafon	ROM 005:093	MediumReverb
Trombone	ROM 005:059	MediumReverb	CaribeTrans	ROM 005:111	15 Chorus->Rev
Trombone-GM	GM 008:057	MediumReverb	EthnoMallet	ROM 005:106	MediumReverb
Trumpet	ROM 005:061	MediumReverb	Log Drum-PT	ROM 005:112	MediumReverb
Trumpet-GM	GM 008:056	MediumReverb	Marimba	ROM 005:107	MediumReverb
Tuba-GM	GM 008:058	MediumReverb			
DRUM-KIT	4111 000.050	Column CVCI D	Marimba-GM	GM 008:012	MediumReverb
	DOM 0 = = =	Various (nor less)	SmTunedGong	ROM 005:113	MediumReverb
Dance Kit	ROM 005:122	Various (per key)	Steel Drum	ROM 005:108	MediumReverb
Jazz Kit	ROM 005:126	Various (per key)	SteelDrm-GM	GM 008:114	MediumReverb
Live Kit	ROM 005:127	Various (per key)	Tymp Roll	DRM 015:084	MediumReverb
MultiKit #1	ROM 005:123	Various (per key)	Tympani	DRM 015:076	MediumReverb
MultiKit #2	ROM 005:124	Various (per key)	Tympani mf	DRM 015:077	MediumReverb
MultiKit #3	ROM 005:124 ROM 005:125	Various (per key)			
			Tympani pp	DRM 015:078	MediumReverb
Street Kit	ROM 005:121	Various (per key)	Tympani-GM	GM 008:047	MediumReverb
DRMKITGM			Vibes-GM	GM 008:011	MediumReverb
Brsh Kit-GM	GM 009:040	Various (per key)	Vibraphone	ROM 005:109	o6 Small Plate
DanceKit-GM	GM 009:064	Various (per key)	WhisperWood	INT 001:010	MediumReverb
Elec Kit-GM	GM 009:024	Various (per key)	Xylophon-GM	GM 008:013	MediumReverb
FormtKit-GM	GM 009:066	Various (per key)	Xylophone	ROM 005:110	o2 Hall Reverb
		(F 1/2)	Aylophone		SE HOH REVELD

MediumReverb MediumReverb MediumReverb

MediumReverb MediumReverb

MediumReverb MediumReverb MediumReverb

ORCHSTRA			CactusLoop1	DRM 017:058
Orch/Wheel String+Wind	INT 001:011 ROM 005:052	o2 Hall Reverb 18 EQ->Reverb	CactusLoop2 Castanets 1	DRM 017:059 DRM 017:039
Wind Str-Wl	ROM 005:068	15 Chorus->Rev	Castanets 2	DRM 017:040
Woodwinds	INT 001:012	os Large Plate	China 1-GM	DRM 014:063
ORGAN-A	2011	2	China Crash	DRM 014:062
Bell Organ Cathedral	ROM 004:058 ROM 004:051	12 Rev->Chorus 02 Hall Reverb	ChokeCrash ChokeSplash	DRM 014:059 DRM 014:060
Ch.Organ-GM	GM 008:019	MediumReverb	Clave	DRM 017:012
ChurchOrgan	ROM 004:052	12 Rev->Chorus	Clave HP	DRM 017:013
Flute Stops	ROM 004:055	MediumReverb	ClHat 1-NKG	DRM 014:002
Hall Organ MellowPipes	ROM 004:054 ROM 004:040	12 Rev->Chorus MediumReverb	ClHat 2-NKG ClHat 3-NKG	DRM 014:005 DRM 014:006
Org+Pedals	ROM 004:049	MediumReverb	ClHat 4-NKG	DRM 014:009
PhantomPipe	ROM 004:056	MediumReverb	Click	DRM 017:016
Pipe Organ	ROM 004:050	WetReverb	Com/GateSnr	DRM 012:013
ReedOrgn-GM Regal Organ	GM 008:020 ROM 004:057	MediumReverb MediumReverb	ConcrtBD-GM ConcrtSnare	DRM 011:039 DRM 012:007
WheelPipes	ROM 004:053	12 Rev->Chorus	Conga Flamı	DRM 015:025
ORGAN-E			Conga Hi 2	DRM 015:004
3Drawbrs-PR	ROM 004:037	34 RotarySpeaker	Conga Hi 3	DRM 015:005
4Drawbrs-PR AllStops-PR	ROM 004:035 ROM 004:038	34 RotarySpeaker 34 RotarySpeaker	Conga High Conga Lo 2	DRM 015:000 DRM 015:010
Big Organ	ROM 004:031	10 Stereo Chorus	Conga Low	DRM 015:009
Chiff Organ	ROM 004:047	MediumReverb	Conga Mute	DRM 015:026
Donor Organ	ROM 004:036	34 RotarySpeaker	Conga Shrt2	DRM 015:028
Farcheeza Full B3-PR	ROM 004:043 ROM 004:042	MediumReverb 34 RotarySpeaker	CongaFingHi CongaFingLo	DRM 015:003 DRM 015:014
Jazz Organ	ROM 004:042 ROM 004:041	34 RotarySpeaker	CongaHi/whl	DRM 015:001
Organ 1-GM	GM 008:016	MediumReverb	CongaLO/whl	DRM 015:011
Organ 2-GM	GM 008:017	MediumReverb	CongaLoShrt	DRM 015:027
Organ 3-GM	GM 008:018	MediumReverb	CongaMoose1 CongaMoose2	DRM 015:015
Ped/Perc B3 Perc B3-PR	ROM 004:034 ROM 004:032	34 RotarySpeaker 34 RotarySpeaker	CongaMoose3	DRM 015:016 DRM 015:017
Perc+Chorus	ROM 004.032 ROM 004:039	MediumReverb	CongaMoose4	DRM 015:017
Rock B ₃ -PR	ROM 004:033	34 RotarySpeaker	CongaMooses	DRM 015:019
Synth Organ	ROM 004:048	MediumReverb	CongaMoose6	DRM 015:020
Wheel Org 1	ROM 004:044	34 RotarySpeaker	CongaPatHi	DRM 015:002
Wheel Org 2 Whl Dbl Org	ROM 004:046 ROM 004:045	34 RotarySpeaker 34 RotarySpeaker	CongaPatLo CongLoTite	DRM 015:013 DRM 015:012
PERC-KIT	10741 004.043	34 Horal Asheakel	Cool Ride 1	DRM 014:039
Conga Map	ROM 005:117	Various (per key)	Cowbel Stik	DRM 016:022
Insta-Rap	INT 001:052	Various (per key)	Cowbell	DRM 016:016
Latin Percs Perc Kit 1	ROM 005:116 ROM 005:120	Various (per key)	Cowbell Mtd CrackSnare1	DRM 016:017 DRM 012:016
SynPerc Kit	ROM 005:120 ROM 005:119	Various (per key) Various (per key)	CrackSnare2	DRM 012:017
World Kit	ROM 005:118	Various (per key)	Crash 1-GM	DRM 014:054
PERCSOLO	-	*	Crash Cym 1	DRM 014:052
4x Hat1 B	DRM 014:001	MediumReverb	Crash Cym 2	DRM 014:053
4x Hat2 B 4x Hat3 B	DRM 014:004 DRM 014:008	MediumReverb MediumReverb	CrshCymRoll CTRL1 OpHat	DRM 014:073 DRM 014:032
4xCl Hat1	DRM 014:000	MediumReverb	Cuica 1	DRM 015:050
4xCl Hat2	DRM 014:003	MediumReverb	Cuica 2	DRM 015:051
4xCl Hat3	DRM 014:007	MediumReverb	Cuica 3	DRM 015:052
4xVel Hats 8o8 Cymbal	DRM 014:010 DRM 014:075	MediumReverb MediumReverb	Cuica 4	DRM 015:053 DRM 015:054
Acoust Kik2	DRM 014.075 DRM 011:005	MediumReverb	Cuica 5 Cym Swell	DRM 013.054 DRM 014:066
AcoustcKick	DRM 011:004	MediumReverb	Cym Swell2	DRM 014:067
Agogo	DRM 016:013	MediumReverb	Dance Kick	DRM 011:094
Agogo Stik AltRevCrash	DRM 016:014	MediumReverb MediumReverb	Dark Udu	DRM 015:091
Big Kick1	DRM 014:071 DRM 011:015	MediumReverb	Dbl Moose 1 Dbl Moose 2	DRM 015:021 DRM 015:022
Big Kick2	DRM 011:016	MediumReverb	DblFlamTom	DRM 013:016
Bongo	DRM 015:031	MediumReverb	Dry Tom 1	DRM 013:000
Bongo 2	DRM 015:034	MediumReverb	Dry Tom 2	DRM 013:004
Bongo HP	DRM 015:033 DRM 015:035	MediumReverb MediumReverb	Dull SynKik	DRM 011:056
Bongo Roll BongoShort	DRM 015.035 DRM 015:032	MediumReverb	Dyn.Tambo Dynamic Tom	DRM 016:028 DRM 013:018
Boom Kik A	DRM 011:051	MediumReverb	DynamicKick	DRM 011:013
Boom Kik B	DRM 011:052	MediumReverb	DynamicSnar	DRM 012:001
Boom Kik C BrassChimes	DRM 011:053	MediumReverb MediumReverb	DynTimb HP DynTimbali	DRM 015:040
Bright Kick	DRM 016:049 DRM 011:000	MediumReverb	Egg Shaker	DRM 015:041 DRM 017:032
Bright Kik2	DRM 011:000	MediumReverb	Elec Kick1	DRM 011:059
Bright Udu	DRM 015:090	MediumReverb	Elec Kick2	DRM 011:060
Brush Hit	DRM 012:076	MediumReverb	Elec Sn-GM	DRM 012:042
Brush Hitav	DRM 012:077	MediumReverb MediumReverb	Elec Snare1 Elec Snare2	DRM 012:040
Brush Slap Brush Swish	DRM 012:079 DRM 012:082	MediumReverb	Elec Snare2 Elec Tom-GM	DRM 012:041 DRM 013:030
Brush Tap	DRM 012:002 DRM 012:091	MediumReverb	Fast Taiko	DRM 015:070
Brush Tap2	DRM 012:092	MediumReverb	Fat Claps	DRM 017:021
Brush Toma	DRM 013:064	MediumReverb	Fat Kickı	DRM 011:009
Brush Tom2 Brush Tom3	DRM 013:065 DRM 013:066	MediumReverb MediumReverb	Fat Kick2 Fat Kick3	DRM 011:010 DRM 011:011
Brush Tom4	DRM 013:067	MediumReverb	Fat Kick4	DRM 011:012
BrushSwish2	DRM 012:083	MediumReverb	FINTe Drum	DRM 015:089
BrushSwish3	DRM 012:084	MediumReverb	Gate/PopSnr	DRM 012:022
BrushSwish4	DRM 012:085	MediumReverb	Gated Kicks	DRM 011:042
BrushSwish5 BrushSwish6	DRM 012:086 DRM 012:087	MediumReverb MediumReverb	Gated Kick2 Gated Sn-GM	DRM 011:043 DRM 012:021
Cabasa	DRM 012.087 DRM 017:028	MediumReverb	Gong ff	DRM 012.021 DRM 014:085
Cabasa HP	DRM 017:030	MediumReverb	Gong mf	DRM 014:084
Cabasa Up	DRM 017:029	MediumReverb	Gong p	DRM 014:083
Cactus Hit1 Cactus Hit2	DRM 017:064	MediumReverb MediumReverb	Guiro Long	DRM 017:000
Cactus MIL2	DRM 017:065	MEGIGITINEVELD	Guiro Long2	DRM 017:001

Guiro Short	DRM 017:002	MediumReverb
Hand Claps	DRM 017:020	MediumReverb
HiCngMoose1	DRM 015:006	MediumReverb
HiCngMoose2	DRM 015:007	MediumReverb
HiPass Kik1	DRM 011:072	MediumReverb
HiPass Kik2	DRM 011:073	MediumReverb
HiPass Snr1	DRM 012:051	MediumReverb
HiPass Snr2	DRM 012:052	MediumReverb
HiPass Snr3	DRM 012:053	MediumReverb
HipHopSnare	DRM 012:031	MediumReverb
House Rim	DRM 018:003	MediumReverb
HouseClap1	DRM 018:005	MediumReverb
HouseClap2	DRM 018:006	MediumReverb
HouseClHat1	DRM 014:011	MediumReverb
HouseClHat2	DRM 014:012	MediumReverb
HouseClHat3	DRM 014:013	MediumReverb
HouseCrash1	DRM 014:057	MediumReverb
HouseCrash ₂		MediumReverb
	DRM 014:058	
HouseKick1	DRM 011:068	MediumReverb
HouseKick2	DRM 011:069	MediumReverb
HouseKick3	DRM 011:070	MediumReverb
HouseKick4	DRM 011:071	MediumReverb
HouseOpHat1	DRM 014:019	MediumReverb
HouseOpHat2	DRM 014:020	MediumReverb
HouseOpHat3	DRM 014:021	MediumReverb
HouseRide1	DRM 014:040	MediumReverb
HouseRide2	DRM 014:041	MediumReverb
HouseSnare1	DRM 012:036	MediumReverb
HouseSnare2 HouseSnare3	DRM 012:037 DRM 012:038	MediumReverb MediumReverb
HouseSnare4	DRM 012:039	MediumReverb
HouseTom1	DRM 013:036	MediumReverb
HouseTom ₂	DRM 013:037	MediumReverb
Jaw Harp	DRM 016:035	MediumReverb
JawHarp+HP	DRM 016:038	MediumReverb
Jawharp/whl	DRM 016:036	MediumReverb
Jazz Kickı	DRM 011:034	MediumReverb
Jazz Kick2	DRM 011:035	MediumReverb
Jazz Kick3	DRM 011:036	MediumReverb
Jazz Kick4	DRM 011:037	MediumReverb
LoEthnicDr	DRM 015:088	MediumReverb
LongHat-NKG	DRM 014:015	MediumReverb
LongOpHat 1	DRM 014:014	MediumReverb
Loop Kick1	DRM 011:074	MediumReverb
Loop Kick2	DRM 011:075	MediumReverb
Maracas	DRM 017:024	MediumReverb
Maracas HP	DRM 017:025	MediumReverb
Maracas Up	DRM 017:026	MediumReverb
Marktree '	DRM 016:048	MediumReverb
Med Hat-NKG	DRM 014:017	MediumReverb
MeloTom1-GM	GM 008:117	MediumReverb
Military Sn	DRM 012:006	MediumReverb
Mt Surdo-GM	DRM 015:073	MediumReverb
Muff Kick 1	DRM 013:048	MediumReverb
Muff Kick 2	DRM 011:049	MediumReverb
		MediumReverb
Muffled Sn	DRM 012:008	
Native Drum	DRM 015:092	MediumReverb
NutRatlHit	DRM 017:073	MediumReverb
NutRatlLp1	DRM 017:069	MediumReverb
Op Surdo-GM	DRM 015:072	MediumReverb
OpenHat-GM	DRM 014:027	MediumReverb
Pedal Hat	DRM 014:018	MediumReverb
Piatti	DRM 014:079	MediumReverb
Piatti 2	DRM 014:080	MediumReverb
Piatti-GM	DRM 014:081	MediumReverb
Pillow Kik	DRM 011:067	MediumReverb
Pole	DRM 016:045	MediumReverb
Pop Snare	DRM 012:019	MediumReverb
Press Roll	DRM 012:056	MediumReverb
ProcessKick	DRM 011:045	MediumReverb
PtchDwnKik1	DRM 011:099	MediumReverb
PtchDwnKik2	DRM 011:100	MediumReverb
PtchDwnKik3	DRM 011:100	MediumReverb
		MediumReverb
Punchy Kick	DRM 011:022	
R.Crash-GM	DRM 014:072	MediumReverb
Rainstick	DRM 017:047	MediumReverb
Rainstick 2	DRM 017:048	MediumReverb
Rainstick 3	DRM 017:049	MediumReverb
Rap Hat 1	DRM 014:028	MediumReverb
Rap Hat 2	DRM 014:030	MediumReverb
Rap Kick 1	DRM 011:064	MediumReverb
Rap Kick 2	DRM 011:065	MediumReverb
Rap Kick 3	DRM 011:066	MediumReverb
Rap Snare	DRM 012:028	MediumReverb
Rap Tambo	DRM 016:032	MediumReverb
Real Kick	DRM 011:019	MediumReverb
Real Snare	DRM 012:000	MediumReverb
Reso Kick1	DRM 011:029	MediumReverb
Reso Kick2	DRM 011:030	MediumReverb
Rev BoomKik	DRM 011:109	MediumReverb
Rev ClHat 1	DRM 011.109 DRM 014:103	MediumReverb
Rev ClHat 2	DRM 014:103 DRM 014:104	MediumReverb
Rev ClHat 3	DRM 014:104 DRM 014:105	MediumReverb
Rev ClHat 4 Rev ClHat 5	DRM 014:106 DRM 014:107	MediumReverb
	DK/N 014:107	MediumReverb
Nev ciriac 5		

Rev CmpGtSn	DRM 012:102	MediumReverb
Rev CrackSn	DRM 012:103	MediumReverb
Rev Crash 1	DRM 014:070	MediumReverb
Rev DanceSn	DRM 012:104	MediumReverb
Rev ElKick Rev FatKick	DRM 011:110	MediumReverb
Rev GateKik	DRM 011:105 DRM 011:106	MediumReverb MediumReverb
Rev Gm Sn	DRM 012:106	MediumReverb
Rev Guiro	DRM 017:005	MediumReverb
Rev LoopKik	DRM 011:107	MediumReverb
Rev OpHat 1	DRM 014:101	MediumReverb
Rev OpHat 2	DRM 014:102	MediumReverb
Rev PedlHat	DRM 014:100	MediumReverb
Rev Pop Sn	DRM 012:105	MediumReverb MediumReverb
Rev Rap Sn Rev RapHat1	DRM 012:108 DRM 014:111	MediumReverb
Rev RapHat2	DRM 014:112	MediumReverb
Rev RapKick	DRM 011:108	MediumReverb
Rev Real Sn	DRM 012:101	MediumReverb
Rev SynHat1	DRM 014:108	MediumReverb
Rev SynHat2	DRM 014:109	MediumReverb
Rev SynHat3	DRM 014:110	MediumReverb
Rev Timbali	DRM 015:044 GM 008:119	MediumReverb MediumReverb
Rev.CymGM RevChinaCym	DRM 014:064	MediumReverb
RevHiphopSn	DRM 012:107	MediumReverb
RevRideBell	DRM 014:048	MediumReverb
Ride 1-GM	DRM 014:036	MediumReverb
Ride Bell	DRM 014:046	MediumReverb
Ride Cym 1	DRM 014:033	MediumReverb
Ride Cym 2	DRM 014:034	MediumReverb
Ride Cym 3	DRM 014:035	MediumReverb
Ride Short Ride+Bell	DRM 014:037 DRM 014:047	MediumReverb MediumReverb
RideBell-GM	DRM 014:049	MediumReverb
RideCymRoll	DRM 014:042	MediumReverb
RimshotSnr	DRM 012:025	MediumReverb
Ring Tom 1	DRM 013:006	MediumReverb
Ring Tom 1 Ring Tom 2	DRM 013:007	MediumReverb
Ring Tom 3	DRM 013:008	MediumReverb
Ring Tom 4	DRM 013:009	MediumReverb
Rock Snare Roll+Sn Hit	DRM 012:010 DRM 012:057	MediumReverb MediumReverb
Room Tom 1	DRM 013:010	MediumReverb
Room Tom 2	DRM 013:013	MediumReverb
Scratch o1	DRM 018:032	MediumReverb
Scratch o2	DRM 018:033	MediumReverb
Scratch o3	DRM 018:034	MediumReverb
Scratch 04	DRM 018:035	MediumReverb
Scratch o5 Scratch o6	DRM 018:036	MediumReverb MediumReverb
Scratch 07	DRM 018:037 DRM 018:038	MediumReverb
Scratch o8	DRM 018:039	MediumReverb
Scratch og	DRM 018:040	MediumReverb
Scratch 10	DRM 018:041	MediumReverb
Scratch 11	DRM 018:042	MediumReverb
Scratch 12	DRM 018:043	MediumReverb
Scratch 13	DRM 018:044	MediumReverb
Scratch 14 Shaker	DRM 018:045 DRM 017:035	MediumReverb MediumReverb
ShrtOpHat 1	DRM 014:016	MediumReverb
SideStick 1	DRM 012:066	MediumReverb
SideStick 2	DRM 012:069	MediumReverb
SizlRide 2	DRM 014:089	MediumReverb
SizlRide 3	DRM 014:090	MediumReverb
SizlRideCym	DRM 014:088	MediumReverb
Sleighbell Slow Cactus	DRM 016:055 DRM 017:060	MediumReverb MediumReverb
Slow Nuts	DRM 017:070	MediumReverb
Slow Ratl 2	DRM 017:076	MediumReverb
Slow Rattle	DRM 017:075	MediumReverb
Snare Roll	DRM 012:055	MediumReverb
Snare-GM	DRM 012:003	MediumReverb
Soft Noise	DRM 017:045	MediumReverb
Splash1-GM	DRM 014:061 DRM 014:056	MediumReverb MediumReverb
SplashCym 1 Spoons	DRM 014.050 DRM 016:041	MediumReverb
Spoons 2	DRM 016:042	MediumReverb
Stereo Clap	DRM 018:008	MediumReverb
Stick Click	DRM 012:072	MediumReverb
SwitchTom 1	DRM 013:020	MediumReverb
Syn Cowbell	DRM 018:000	MediumReverb
Syn Kick-GM	DRM 011:084	MediumReverb
Syn Kick1A Syn Kick1B	DRM 011:079 DRM 011:080	MediumReverb MediumReverb
Syn Kick1C	DRM 011:080	MediumReverb
Syn Kick1D	DRM 011:082	MediumReverb
Syn Maracas	DRM 018:015	MediumReverb
Syn OpenHat	DRM 014:025	MediumReverb
Syn Snr-GM	DRM 012:049	MediumReverb
Syn Tom-GM	DRM 013:033	MediumReverb
Syn.Drum-GM SynClHat-GM	GM 008:118 DRM 014:023	MediumReverb MediumReverb
SynCloseHat	DRM 014:023 DRM 014:022	MediumReverb
SynHiCongGM	DRM 018:029	MediumReverb
-	FNICONUS	70 / / /

SynLoCongGM	DRM 018:028	MediumReverb	Pop Piano	ROM 004:007	12 Rev->Chorus
SynOpHat-GM	DRM 014:026	MediumReverb	Room Piano	ROM 004:003	18 EQ->Reverb
SynRideCym1	DRM 014:076	MediumReverb	StereoGrand	ROM 004:000	o1 PaINTetric EQ
SynRideCym2	DRM 014:077	MediumReverb	Tack Piano	ROM 004:008	MediumReverb
SynRimshot	DRM 018:002	MediumReverb	Warm Piano	ROM 004:001	MediumReverb
Synth Clave	DRM 018:010	MediumReverb	PNOLYR-A	DOM	C I
Synth Drip	DRM 018:019	MediumReverb	LA Layer	ROM 004:009	Chorus
Synth Drip2	DRM 018:020 DRM 018:021	MediumReverb MediumReverb	Pno+Strings	ROM 004:010	MediumReverb
Synth Drip3			Pno+Voices	ROM 004:012	MediumReverb
Synth Hit 1 Synth Hit 2	DRM 018:085 DRM 018:086	MediumReverb MediumReverb	PnoStrBells PIANO-E	ROM 004:011	WetReverb
Synth Hit 3	DRM 018:087	MediumReverb	DynFM E.Pno	ROM 004:021	Chorus
Synth Hit 4	DRM 018:088	MediumReverb	DynoE.Pno1	ROM 004:022	Chorus
Synth Hit 5	DRM 018:089	MediumReverb	E.Piano1-GM	GM 008:004	MediumReverb
Synth Hit 6	DRM 018:090	MediumReverb	E.Piano2-GM	GM 008:005	MediumReverb
Synth Hit 7	DRM 018:091	MediumReverb	Hammer Tine	ROM 004:020	Chorus
Synth Hit 8	DRM 018:092	MediumReverb	HybridKeys	ROM 004:016	MediumReverb
Sýnth Hit 9	DRM 018:093	MediumReverb	HýbridE.Pno	ROM 004:023	Chorus
Synth Hit10	DRM 018:094	MediumReverb	Mod Wurlie	ROM 004:026	MediumReverb
Synth Hit11	DRM 018:095	MediumReverb	Pure El.Pno	ROM 004:015	11 8-Voice Chorus
Synth Hit12	DRM 018:096	MediumReverb	Real El.Pno	ROM 004:013	Chorus
Synth Hit13	DRM 018:097	MediumReverb	Suitcase EP	ROM 004:024	17 Phaser->Rev
Synth Hit14	DRM 018:098	MediumReverb	Tine Flies	ROM 004:025	Chorus
Synth Kick2	DRM 011:086	MediumReverb	Tine Sine	ROM 004:017	Chorus
Synth Kick3	DRM 011:088	MediumReverb	Tine-2-Love	ROM 004:018	Chorus
Synth Kick4	DRM 011:091	MediumReverb	VintgeE.Pno	ROM 004:014	10 Stereo Chorus
Synth Kiss	DRM 018:023	MediumReverb	VintgWurlie	ROM 004:027	17 Phaser->Rev
Synth Kiss2	DRM 018:024	MediumReverb	Warm FM Pno	ROM 004:019	MediumReverb
Synth Kiss3 Synth Snare	DRM 018:025	MediumReverb MediumReverb	PNOLYR-E ElPiano+Pad	ROM 004:029	17 Phaser->Rev
Synth Tom 1	DRM 012:047	MediumReverb			Chorus
Synth Tom 2	DRM 013:024 DRM 013:025	MediumReverb	FM Pno+Strg PLUCKED	ROM 004:028	Cilorus
Synth Tom 3	DRM 013:025 DRM 013:026	MediumReverb	Banjo	ROM 005:089	18 EQ->Reverb
Synth Tom 4	DRM 013:020 DRM 013:027	MediumReverb	Banjo-GM	GM 008:105	MediumReverb
Synth Tom 5	DRM 013:027	MediumReverb	Coral Sitar	ROM 005:017	MediumReverb
Taiko	DRM 015:069	MediumReverb	Ethnotan	ROM 005:017	20 DDL->Chorus
Taiko-GM	GM 008:116	MediumReverb	Hammered	ROM 005:086	WetReverb
Tambo Shake	DRM 016:026	MediumReverb	Harp-GM	GM 008:046	MediumReverb
Tambo Short	DRM 016:030	MediumReverb	Harp-Stereo	ROM 005:090	MediumReverb
TamboUpShak	DRM 016:029	MediumReverb	Kalimba	ROM 005:084	MediumReverb
Tambourine	DRM 016:027	MediumReverb	Kalimba-GM	GM 008:108	MediumReverb
Tambourine2	DRM 016:031	MediumReverb	Koto-GM	GM 008:107	MediumReverb
Tight Kick1	DRM 011:025	MediumReverb	Lucy	INT 001:038	11 8-Voice Chorus
Tight Kick2	DRM 011:026	MediumReverb	Mbira	ROM 005:085	18 EQ->Reverb
Timbali	DRM 015:042	MediumReverb	PizzStrg-GM	GM 008:045	MediumReverb
Timbali 2	DRM 015:045	MediumReverb	Santur-GM	GM 008:015	MediumReverb
Timbali HP	DRM 015:043	MediumReverb	Shamisen	ROM 005:091	WetReverb
TimbaliFlam	DRM 015:046	MediumReverb	Shamisen-GM	GM 008:106	MediumReverb
TimbaliFlm2	DRM 015:047	MediumReverb	Sitar	ROM 005:087	WetReverb
Trashy Snr	DRM 012:034	MediumReverb	Sitar-GM Solo Pizz	GM 008:104	MediumReverb
Tri Mute-GM	DRM 016:007 DRM 016:008	MediumReverb MediumReverb		ROM 005:045 INT 001:022	WetReverb MediumReverb
Tri Open-GM Tri Roll	DRM 016:006	MediumReverb	Synthtar Whl/OctPizz	ROM 005:044	WetReverb
Triangl/whl	DRM 016:000	MediumReverb	SAX-SOLO	KOW 005.044	VVECINEVELD
Triangle Mt	DRM 016:002	MediumReverb	Alto Sax-GM	GM 008:065	MediumReverb
Triangle Op	DRM 016:005	MediumReverb	Bari,Sax-GM	GM 008:067	MediumReverb
Triangle Mt2	DRM 016:003	MediumReverb	BreathyAlto	ROM 005:080	WetReverb
TrianglTick	DRM 016:004	MediumReverb	BreathySopr	ROM 005:077	WetReverb
VelociDrums	INT 001:065	MediumReverb	BreathyTenr	ROM 005:078	WetReverb
VelociPercs	INT 001:063	MediumReverb	Sop.Sax-GM	GM 008:064	MediumReverb
Vibraslap	DRM 017:043	MediumReverb	Soprano Sax	ROM 005:081	WetReverb
Vibraslap 2	DRM 017:044	MediumReverb	Tenor Lead	ROM 005:079	WetReverb
Wakka 01	DRM 018:054	MediumReverb	TenorSax-GM	GM 008:066	MediumReverb
Wakka 02	DRM 018:055	MediumReverb	SOUND-FX		
Wakka 03	DRM 018:056	MediumReverb	Applause	DRM 018:080	MediumReverb
Wakka 04	DRM 018:057	MediumReverb	Applause-GM	GM 008:126	MediumReverb
Wakka os	DRM 018:058	MediumReverb	Astro Car	INT 001:060	MediumReverb
Wakka o6	DRM 018:059	MediumReverb	Birds-GM	GM 008:123	MediumReverb
Wakka 07	DRM 018:060 DRM 018:061	MediumReverb MediumReverb	BUGZ!!!	DRM 018:105	WetReverb
Wakka 08 Wakka 09	DRM 018:061 DRM 018:062	Mediumkeverb MediumReverb	Gunshot-GM Hlicoptr-GM	GM 008:127 GM 008:125	MediumReverb MediumReverb
Wakka 09 Wakka 10	DRM 018:062 DRM 018:063	MediumReverb	ZR RoboVox	INT 008:125	MediumReverb
Wakka 10 Wakka 11	DRM 018:064	MediumReverb	Scratch It	DRM 018:072	MediumReverb
Wakka 11 Wakka 12	DRM 018:065	MediumReverb	Seashore-GM	GM 008:122	MediumReverb
Wakka 13	DRM 018:066	MediumReverb	SurfaceNoiz	DRM 018:070	MediumReverb
Wakka 14	DRM 018:067	MediumReverb	Telephon-GM	GM 008:124	MediumReverb
Whistle A	DRM 017:051	MediumReverb	Warp Nine	INT 001:058	MediumReverb
Whistle B	DRM 017:054	MediumReverb	SPLITS		
WHLJaw Harp	DRM 016:037	MediumReverb	Jazz Trio	INT 001:061	MediumReverb
Wind Chime .	DRM 016:051	MediumReverb	Modern Jazz	INT 001:062	MediumReverb
Windchime2	DRM 016:052	MediumReverb	STRGSECT		
WindchimeGM	DRM 016:053	MediumReverb	Chamber Str	ROM 005:037	MediumReverb
Woodblock 1	DRM 017:008	MediumReverb	DarkStrings	ROM 005:034	MediumReverb
Woodblock 2	DRM 017:010	MediumReverb	Dyn Marcato	ROM 005:040	WetReverb
WoodblockHP	DRM 017:009	MediumReverb	Holiday Str	ROM 005:039	WetReverb
Woodblok-GM	GM 008:115	MediumReverb	Hot Bath	ROM 005:033	MediumReverb
PIANO-A	DOM	OA DOINITARES - FO	Legato Str	ROM 005:036	WetReverb
BrightPiano	ROM 004:005	o1 PalNTetric EQ	MovieStrngs SlowStrq-GM	ROM 005:038	WetReverb
ConcertGrnd Dance Piano	ROM 004:004 ROM 004:006	18 EQ->Reverb 12 Rev->Chorus	SiowStrg-GM String Mass	GM 008:049 ROM 005:035	MediumReverb Chorus
Dance Plano HonkyTnk-GM	GM 008:003	12 Kev->Cnorus MediumReverb	String Mass Strings-GM	GM 008:048	Cnorus MediumReverb
Jazz Piano	ROM 008:003	MediumReverb	Strings-GM Syn Strings	ROM 008:048	MediumReverb
Piano 1-GM	GM 004.002	MediumReverb	SynStrg1-GM	GM 005.042	MediumReverb
Piano 2-GM	GM 008:000	MediumReverb	TremStrg-GM	GM 008:044	MediumReverb
Piano 3-GM	GM 008:002	MediumReverb	Warm Bath	ROM 005:032	MediumReverb

STRGSOLO

Cello Cello+Vln Cello-GM CntrBass-GM Contrabass Elec Fiddle Fiddle-GM SoloMarcato Viola Viola-GM Violin Violin-GM

SYN-COMP

Ana-Comp Analog Clav Big AnaLead Brassy Stab Brite Comp Bs.&Lead-GM Chiff.Ld-GM Churbles Digi-Comp Echoes House Layer MassiveLéad Meta-Clav Mood Unit Neboir PolySyn.-GM Real Rezz Rezz Comp Rezz Stab Rezzv Brass Rubber Rez ScratchPtch Strat Pad Sync Lead SynFunkClay TakeThe5th Trans Comp Trans Rezz Vel Trans

Watery Pad SYN-LEAD

Acid Wheel Acid Wheel2 FormantI ead Lucky'sLead Maxi Mini Mini-Lead MonoBrassLd OdysseyLead Rap Glider Rezolution Smooth Lead TransFusion

SYN-PAD

4-D Pad Abaco Atmspher-GM Bell Pad Bellsalar BowedGls-GM Britness-GM ComfortZone Delay Sweep Dreamwave EchoDrop-GM Evolution Fantasia-GM Fat Pad Goblin-GM Halo Pad-GM Hi-Tech Bed Horizons Icicles Icy Voices Late Breeze Lovely MetalPad-GM Phase Sweep **Positrons** Sage Orbit Slow Wash SoundTrk-GM SpinCrystal StarThm.-GM SweepPad-GM Syn Orch SvnCalio-GM

ROM 005:049 ROM 005:048 GM 008:042 GM 008:043 ROM 005:050 ROM 005:051 GM 008:110 ROM 005:041 ROM 005:047 GM 008:041 ROM 005:046 GM 008:040

ROM 004:102 INT 001:040 ROM 004:099 INT 001:033 ROM 004:104 GM 008:087 GM 008:083 ROM 004:073 ROM 004:101 INT 001:039 ROM 005:115 INT 001:029 INT 001:042 INT 001:004 INT 001:056 GM 008:090 INT 001:019 INT 001:043 INT 001:032 ROM 004:086 ROM 004:083 INT 001:127 INT 001:001 ROM 004:095 ROM 004:060 INT 001:028 INT 001:027 INT 001:020 ROM 004:103 INT 001:008

ROM 004:100 INT 001:044 ROM 004:096 INT 001:026 ROM 004:098 INT 001:024 ROM 004:087 INT 001:035 ROM 004:097 INT 001:021 INT 001:025 INT 001:023

ROM 004:068 ROM 004:075 GM 008:099 ROM 004:084 ROM 004:067 GM 008:092 GM 008:100 ROM 004:077 INT 001:054 ROM 004:072 GM 008:102 ROM 004:080 GM 008:088 ROM 004:081 GM 008:101 GM 008:094 ROM 004:078 ROM 004:090 ROM 004:076 ROM 004:070 ROM 004:085 INT 001:003 GM 008:093 ROM 004:079 INT 001:002 ROM 004:074 INT 001:016 GM 008:097 INT 001:006 GM 008:103 GM 008:095 ROM 005:053 GM 008:082

WetReverb WetReverb MediumReverb MediumReverb WetReverb MediumReverb MediumReverb WetReverb WetReverb MediumReverb WetReverb MediumReverb

22 DDL->Phaser 20 DDL->Chorus 20 DDL->Chorus MediumReverb 21 DDL->Flanger MediumReverb MediumReverb 33 Formant Morph 22 DDL->Phaser 20 DDL->Chorus MediumReverb MediumReverb 16 Flanger->Rev 16 Flanger->Rev 21 DDL->Flanger MediumReverb 30 Dist->VCF->DDL 16 Flanger->Rev MediumReverb MediumReverb Chorus on PalNTetric EQ 40 EQ->Chorus->DDL 22 DDL->Phaser 10 Spinner->Rev MediumReverb 14 Rev->Phaser MediumReverb MediumReverb 13 Rev->Flanger

MediumReverb 22 DDL->Phaser 33 Formant Morph MediumReverb 31 Pitch Detuner 40 EQ->Chorus->DDL MediumReverb MediumReverb MediumReverb MediumReverb 13 Rev->Flanger 21 DDL->Flanger

MediumReverb 20 DDL->Chorus MediumReverb 17 Phaser->Rev 14 Rev->Phaser MediumReverb MediumReverb 18 EQ->Reverb 32 Chatter Box 20 DDL->Chorus MediumReverb 19 Spinner->Rev MediumReverb Chorus MediumReverb MediumReverb 22 DDL->Phaser 11 8-Voice Chorus 22 DDL->Phaser 15 Chorus->Rev MediumReverb 10 Stereo Chorus MediumReverb 40 EQ->Chorus->DDI 11 8-Voice Chorus 23 DDL->EQ 18 EQ->Reverb MediumReverb 20 DDL->Chorus MediumReverb MediumReverb 20 DDL->Chorus

MediumReverb

SvncroTrans SynStrg2-GM Textures Trans Vox Transilient Translucent Transphere Tryptichon Warm Pad-GM SYN-VINT

5ths Wv-GM AnalogBrass Elka Strngs FairliteStr MicroTrans OB-8 Strngs Poly Stab Prophet Str Pulse Synth Retro Lead Saw Wv-GM SawTeeth SquareWv-GM √oٰx Humana

SYNOTHER

FormantSync Glyder Ice Rain-GM RainMan Sample&Hold Transzex

VOCALS

A Ha Ha Ha Aaaahhhs Ahhzy Airy Voices Bell-Air ChoirAah-GM Nutmeg Oh Yeah Pad Oooohhhs Slow Morph Solo Vox-GM SpaceVox-GM Syn.Vox-GM Transcend Tundra Vox Vox Oohs-GM Wheel Morph

WINDREED

Accord.-GM Accordion Airy Flute Andes Flute Bagpipe-GM Bagpipes-PT Bandneon-GM Bassoon Bassoon-GM BotlBlow-GM BrthNois-GM Chiff Flute Clarinet Clarinet-GM EnglishHorn Flute Pad Flute-GM Folk Accord FormantHarp Harmnica-GM Harmonica Oboe Oboe-GM Ocarina-GM Pan Flutes PanFlute-GM Piccolo-GM Recorder Recorder-GM Shaku.-GM Shannai-GM TinWhistles Whistle-GM ***UTILITY** GM 008:078

Silence *CUSTOM RthmEditKit

SongEditKit MIDI-OUT

INT 001:053 GM 008:051 INT 001:007 ROM 005:024 INT 001:055 INT 001:005 INT 001:017 ROM 004:069 GM 008:089

GM 008:086 INT 001:031 ROM 004:089 ROM 004:094 INT 001:009 ROM 004:092 INT 001:034 INT 001:030 INT 001:036 ROM 004:091 GM 008:081 ROM 004:093 GM 008:080 ROM 004:088

INT 001:057 INT 001:037 GM 008:096 ROM 004:071 INT 001:018 ROM 004:066

INT 001:014 ROM 005:021 ROM 005:030 INT 001:015 ROM 005:028 GM 008:052 ROM 005:029 ROM 005:025 ROM 005:022 ROM 005:026 GM 008:085 GM 008:091 GM 008:054 ROM 004:082 ROM 005:023 GM 008:053 ROM 005:027

GM 008:021 ROM 004:064 ROM 005:073 ROM 005:074 GM 008:109 ROM 005:083 GM 008:023 ROM 005:069 GM 008:070 GM 008:076 GM 008:121 ROM 005:075 ROM 005:072 GM 008:071 GM 008:069 ROM 005:071 INT 001:013 GM 008:073 ROM 004:065 ROM 005:082 GM 008:022 ROM 005:076 ROM 005:070 GM 008:068 GM 008:079 ROM 005:065 GM 008:075 GM 008:072 ROM 005:066 GM 008:074 GM 008:077 GM 008:111 ROM 005:092

DRM 018:127

kito10:001 kito10:000 Xmit bnk:prg 20 DDL->Chorus MediumReverb 14 Rev->Phaser 22 DDL->Phaser 15 Chorus->Rev 20 DDL->Chorus 21 DDL->Flanger 15 Chorus->Rev MediumReverb

MediumReverb LightReverb 02 Hall Reverb MediumReverb 11 8-Voice Chorus 11 8-Voice Chorus MediumReverb MediumReverb 13 Rev->Flanger 29 ResVCF->DDL MediumReverb 40 EQ->Chorus->DDL MediumReverb 22 DDL->Phaser

33 Formant Morph 20 DDL->Chorus MediumReverb 20 DDL->Chorus MediumReverb 21 DDL->Flanger

19 Spinner->Rev 13 Rev->Flanger MediumReverb os Large Plate MediumReverb os Large Plate MediumReverb MediumReverb 13 Rev->Flanger 12 Rev->Chorus MediumReverb MediumReverb MediumReverb MediumReverb MediumReverb MediumReverb Chorus

MediumReverb MediumReverb WetReverb o2 Hall Reverb MediumReverb 18 EQ->Reverb MediumReverb WetReverb MediumReverb MediumReverb MediumReverb WetReverb 02 Hall Reverb MediumReverb MediumReverb WetReverb 02 Hall Reverb MediumReverb MediumReverb 32 Chatter Box MediumReverb WetReverb WetReverb MediumReverb MediumReverb 15 Chorus->Rev MediumReverb MediumReverb WetReverb MediumReverb MediumReverb MediumReverb MediumReverb

MediumReverb

Various (per kev) Various (per key)

MediumReverb

ROM-RTHM INT-RTHM INT-RTHM

ROM-RTHM & DEMORTHM

ROM-RTHM ROM-RTHM

DEMORTHM ROM-RTHM ROM-RTHM ROM-RTHM ROM-RTHM ROM-RTHM ROM-RTHM ROM-RTHM & DEMORTHM

ROM-RTHM ROM-RTHM ROM-RTHM

ROM-RTHM ROM-RTHM ROM-RTHM ROM-RTHM ROM-RTHM ROM-RTHM ROM-RTHM ROM-RTHM

ROM-RTHM ROM-RTHM ROM-RTHM

ROM-RTHM

ROM-RTHM INT-RTHM INT-RTHM & DEMORTHM INT-RTHM & DEMORTHM

ZRD-100 ZRD-100 ROM-RTHM ROM-RTHM

ROM-RTHM ROM-RTHM & DEMORTHM INT-RTHM & DEMORTHM

INT-RTHM & DEMORTHM INT-RTHM

ZRD-100 ZRD-100 ROM-RTHM &

DEMORTHM ROM-RTHM ZRD-100

ZRD-100

ZRD-100 ROM-RTHM

List of Rhythm Pattern Files

The following is a list of all the rhythm pattern files currently available for the ZR-76 Drum Machine. All INT-RTHM rhythm patterns are backed-up to the ZRD-100 floppy disk in the "!FLSRTHM" rhythm bank. Any rhythms that are listed as ZRD-100 are additional rhythms available exclusively on the ZRD-100 disk:

Category AMBIENT BALLAD BALLAD	Name Sci-Fi 1 Philly RockBallad1	Residency INT-RTHM ROM-RTHM ROM-RTHM	POP POP POP RAP	Old Hits 1 6/8 pop Dance Pop 4 InsertLoop1
BALLAD	R&BBallad 2	ROM-RTHM	RAP	JazzyLoop 1
BALLAD	RockBallad 1	ROM-RTHM	RAP	Loops 1
BALLAD	Straight 8	INT-RTHM	RAP	Loops 2
BALLAD	R&BBallad 3	ZRD-100	RAP	Loops 3
BALLAD BALLAD	Rim 16&Perc Rim 16ths	ZRD-100 ZRD-100	RAP RAP	Loops 4 Loops 5
BALLAD	Shuffle 8	ZRD-100	RAP	Loops 6
BALLAD	Straight 16	ZRD-100	RAP	Loops 7
BLUES	Shuffle 1	ROM-RTHM	RAP	Loops 8
BLUES BLUES	SlowBlues 1 Shuffle 2	ROM-RTHM ZRD-100	RAP	Slow Jam 1
COUNTRY	16th Brush 1	ROM-RTHM	RAP RAP	Slow Loops1 WakkaLoop 1
COUNTRY	Brush Shuffl	ROM-RTHM	10 (1	Wakkazoop i
COUNTRY	Cntry Rock1	ROM-RTHM	ROCK	16th Snr 1
COUNTRY COUNTRY	Cntry Rock2 Cntry Waltz	ROM-RTHM ROM-RTHM	ROCK	Basics 1
COUNTRY	Pop Cntry 1	ROM-RTHM	ROCK ROCK	Basics 2 Big Rock 1
COUNTRY	Shuffle 12/8	ROM-RTHM	ROCK	Big Rock 2
COUNTRY	Slow Shufl1	ROM-RTHM	ROCK	Classic 1
COUNTRY COUNTRY	Straight 1 6/8 Country	ROM-RTHM INT-RTHM	ROCK	Cookin'
COUNTRY	Fast Pop 1	ZRD-100	ROCK	Cops
COUNTRY	Fast Waltz	ZRD-100	ROCK	Dance Pop 2
DANCE	Euro Dance1	ROM-RTHM	ROCK	Fast Rock 1
DANCE	Euro Tech 1	ROM-RTHM & DEMORTHM	ROCK	Funky Stick
DANCE	Euro Tech 2	ROM-RTHM	ROCK ROCK	Med Rock 1 Med. Pop 1
DANCE	Нір Нор 1	ROM-RTHM	ROCK	Med. Pop 2
DANCE	House 2	ROM-RTHM	ROCK	Pop Ballad
DANCE DANCE	House 3 House 4	ROM-RTHM ROM-RTHM	ROCK ROCK	Pop Shufl 1
DANCE	Jungle 1	ROM-RTHM &	ROCK	Ride/Rim 1 RockAnthem1
		DEMORTHM	ROCK	Shuffle 3
DANCE	Jungle 2	ROM-RTHM	ROCK	Shuffle Pop
DANCE DANCE	Jungle 3 Jungle 4	ROM-RTHM ROM-RTHM	ROCK ROCK	Slow Rock 1
DANCE	JungleRave1	ROM-RTHM	ROCK	Swing 16th1 TripShuffle
DANCE	Robo Techno	ROM-RTHM	ROCK	All 4 Stick
DANCE	Slow Euro 1	ROM-RTHM	ROCK	Drum Solo
DANCE DANCE	Techno 1 Techno Toys	ROM-RTHM ROM-RTHM	ROCK	Sthrn Rock
DANCE	House 1	INT-RTHM	NOCK	JUILLI KOCK
DANCE	Rave 1	INT-RTHM	ROCK	Pop Rd/Snr1
DANCE FUNK	Insert Fun 2 Funk Fun 1	ZRD-100 ROM-RTHM	ROCK	Stones
FUNK	Kickin'	ROM-RTHM	SOUL-R&B SOUL-R&B	16th Tambo 1 Easy R&B
FUNK	New Jam	ROM-RTHM	SOUL-R&B	LoveBallad1
FUNK	Old School1	ROM-RTHM	SOUL-R&B	LoveBallad2
FUNK FUNK	Old School2 Tiny Drums1	ROM-RTHM ROM-RTHM	SOUL-R&B	Pop Soul 1
FUNK	Funky Thang	INT-RTHM	SOUL-R&B	Dance Hit 1
HIPHOP	Dance Pop 3	ROM-RTHM		
HIPHOP	DanceBeats1	ROM-RTHM	SOUL-R&B	Dance Hit 2
HIPHOP HIPHOP	DanceBeats2 Hop Loop 1	ROM-RTHM ROM-RTHM	SOUL-R&B	Gospel 1
HIPHOP	HopBallad 2	ROM-RTHM	SOUL-R&B	Gospel 2
HIPHOP	Insert Fun 1	ROM-RTHM	SOUL-R&B	Gospel 3
HIPHOP ISLAND	Soul Jam 1	ROM-RTHM ROM-RTHM	WORLD	World Pop 1
ISLAND	Pop Reggae1 Reggae 1	ROM-RTHM	WORLD	World Pop 3
ISLAND	Reggae 2	ROM-RTHM	WORLD	PercGroove1
ISLAND	Rubba Dub	ROM-RTHM	WORLD	World Pop 2
ISLAND JAZZ	Kingston 6/8 latin jz	INT-RTHM ROM-RTHM	WORLD	World Pop 4 ClickTracks
JAZZ	Swing #1	ROM-RTHM	*UTILITY	CIICKTTACKS
JAZZ	Brush Ballad	INT-RTHM		
JAZZ	Uр Вор	INT-RTHM & DEMORTHM		
LATIN	Brush Samba	ROM-RTHM		
LATIN	Samba 1	ZRD-100		
LATIN	Samba 3	ZRD-100		
LATIN LATIN	Samba 2 Clave Funk	ZRD-100 INT-RTHM		
LATIN	Songo	INT-RTHM		
LATIN	Marinera	ZRD-100		
LATIN	Vals	ZRD-100		
ODDMETER	5/4 Groove	INT-RTHM & DEMORTHM		
POP	12/8 ballad	ROM-RTHM		
POP	16th Perc 1	ROM-RTHM		
POP	Dance Pop 1	ROM-RTHM		

EXP-4: The Perfect Piano™ by William Coakley

Your ZR-76 contains ENSONIQ's EXP-4 Wave Expansion board, featuring The Perfect PianoTM by William Coakley. This board adds additional waves and sounds to those built in to the ZR, or provided on the floppy that came with it. The Perfect PianoTM waves are based on a Steinway D grand piano and two electric pianos. These waves can be accessed by the Unisyn editing software and incorporated into your own new sounds.

The Perfect Piano™ Waves

HARP NOISE L	TINE NOISE 2	EPNO HI	WURLIE LOW	WURLIE MED	HAMMER THUMP	l
HARP NOISE R	WURLIE KEYUP	EPNO MID	EPNO LOW	TINE CLANK	WURLIE HI	ı
TINE NOISE 1	STNWY SOFT-L	STNWY SOFT-R	STNWY HARD-L	EPNO KEY UP	STNWY HARD-R	ı

The Perfect Piano™ Sounds

PIANO-A		
Perfect Pno	036:000	MediumReverb
StPno EQwhl	036:001	LightReverb
Mello-Piano	036:002	LightReverb
Warm Pno/EQ	036:003	LightReverb
TrackingPno	036:004	LightReverb
Stately Pno	036:005	LightReverb
Brite Piano	036:006	LightReverb
LatinoPiano	036:007	LightReverb
Honky-Tonky	036:008	15 Chorus->Rev
Warm-ThkSus	036:009	LightReverb
2Lyr-Bright	036:010	o1 Parametric EQ
2Lyr-Stereo	036:011	o1 Parametric EQ
4Lyr w/Thud	036:012	o1 Parametric EQ
Pno/HrpNoiz	036:013	LightReverb
Cheap Seats	036:014	23 DDL->EQ
Lt Chor Pno	036:015	15 Chorus->Rev
EQ Piano	036:016	o1 Parametric EQ
HrdLyrs/Thd	036:017	o1 Parametric EQ
Reflex Pno	036:018	24 Multi-Tap DDL
DarkSt Pno*	037:001	MediumReverb
Seq. Piano	037:063	o1 Parametric EQ
PIANO-E		
Real Thing	036:033	LightReverb
Chorus EPno	036:034	Chorus
3Lyr ElPno	036:035	17 Phaser->Rev
Cuttin'Tine	036:036	18 EQ->Reverb
4X Med EPno	036:037	Chorus
Subtle EPno	036:038	Chorus
Tine-In	036:039	17 Phaser->Rev
Busted Tine	036:040	17 Phaser->Rev
PhasedWurli	036:042	17 Phaser->Rev
WurliFat	036:043	12 Rev->Chorus
WurliGtrAmp	036:044	36 Guitar Amp
Talkin'Wurli	036:046	32 Chatter Box
TrashdWurli	036:047	27 Dist->Phaser
Rock Wurlie	036:048	25 Dist->Chorus
Pianet	036:050	o1 Parametric EQ
Hybrid EP*	037:004	10 Stereo Chorus
Tine-Wurli	037:006	19 Spinner->Rev
TexturedEP*	037:012	15 Chorus->Rev

DigiPianet*	037:013	17 Phaser->Rev
AttackEPno*	037:014	17 Phaser->Rev
Sweet EPno*	037:015	Chorus
WrliHybrid*	037:016	15 Chorus->Rev
FM Hybrid*	037:017	Chorus
PercWurlie*	037:020	MediumReverb
Tite Wurlie	037:023	MediumReverb
Amped ElPno	037:024	27 Dist->Phaser
ClaviWurlie	037:027	LightReverb
BritePhase	037:028	17 Phaser->Rev
Dark Wurlie	037:029	LightReverb
Jazzy Phase	037:030	17 Phaser->Rev
Wurli-Organ	037:031	34 RotarySpeaker
PNOLYR-A		
Piano-Bell	036:019	12 Rev->Chorus
ElPno Attack	036:020	o1 Parametric EQ
Piano/ElPno	036:021	o1 Parametric EQ
Toy-Piano	036:022	10 Stereo Chorus
Acoustatine	036:023	12 Rev->Chorus
New Age Piano	036:024	40 EQ->Chorus->DDL
TineNoisePd	036:025	15 Chorus->Rev
HarpNoisePd	036:026	15 Chorus->Rev
Padulatiary	036:027	12 Rev->Chorus
Feisty Pad	036:029	40 EQ->Chorus->DDL
Quack Comp	036:030	15 Chorus->Rev
Pno/Orgn-Wh	036:031	34 RotarySpeaker
PercOrg Pno	036:032	10 Stereo Chorus
Piano/Wurly	036:049	o1 Parametric EQ
Piano/Strg*	037:000	o1 Parametric EQ
Pno/VibStr*	037:002	40 EQ->Chorus->DDL
Piano/Aahs*	037:003	o1 Parametric EQ
NylonPiano*	037:007	12 Rev->Chorus
DeepPnoPad*	037:008	14 Rev->Phaser
KeithJ Pno*	037:009	o6 Small Plate
Air Piano*	037:021	19 Spinner->Rev
StPno+EPno*	037:025	o5 Large Plate
StPno+Strg*	037:026	o5 Large Plate
PnoPdDetun*	037:033	31 Pitch Detuner
Harp-Piano*	037:034	12 Rev->Chorus
Deep Piano*	037:035	14 Rev->Phaser
SqrWavPiano	037:037	02 Hall Reverb

Pno Squared	037:039	12 Rev->Chorus
Piano-Tri	037:040	12 Rev->Chorus
4L Pno-Synt	037:044	12 Rev->Chorus
4L Pno-Harm	037:045	12 Rev->Chorus
Quack Atak*	037:046	15 Chorus->Rev
Piano-GamIn	037:047	12 Rev->Chorus
Pno/MrmbaPd	037:048	15 Chorus->Rev
PianoVoiln*	037:049	12 Rev->Chorus
Pno/Org-Wh*	037:050	34 RotarySpeaker
SlapAttack*	037:056	16 Flanger->Rev
PnoHrpStrg*	037:057	o1 Parametric EQ
PnoSynLead*	037:058	40 EQ->Chorus->DDL
Pno-Kalmba*	037:062	o1 Parametric EQ
PNOLYR-E		
RhythmicPad	036:028	40 EQ->Chorus->DDL
HarpTinePad	036:041	15 Chorus->Rev
Wurli-Rotor	036:045	34 RotarySpeaker
ElPnoGamPad	037:005	15 Chorus->Rev
Orgn Hybrid*	037:018	10 Stereo Chorus
Org-EP Mix*	037:019	10 Stereo Chorus
Weird EPLyr	037:022	40 EQ->Chorus->DDL
Wurli-Rez*	037:032	20 DDL->Chorus
EPno-Strgs*	037:036	12 Rev->Chorus
Wurli Synth	037:038	12 Rev->Chorus
EP-Mute Gtr	037:041	11 8-Voice Chorus
East Piano*	037:042	11 8-Voice Chorus
ElPno-Squr*	037:043	12 Rev->Chorus
EPnoDigVoi*	037:01	11 8-Voice Chorus
SPLITS		
AcBs/Piano*	037:010	04 Small Room
Pno/TenrSx*	037:011	04 Small Room
AcBs/ElPno*	037:052	17 Phaser->Rev
Frtls/EPno*	037:053	17 Phaser->Rev
BsGtr/EPno*	037:054	17 Phaser->Rev
SynBs/EPno*	037:055	17 Phaser->Rev
Piano/Alto*	037:059	o4 Small Room
Piano/Sopr*	037:060	o4 Small Room
Pno/Clarnt*	037:061	o4 Small Room

ENSONIQ Drum Map

ZR-76 drum kits that are mapped to the ENSONIQ drum map have eight predefined zones. These predefined zones allow you to swap between the different drum kits that use this map in any of your sequences or songs and have expected results. Within some of the zones there are single keys and/or groups of keys designed to be in finish mode as far as their envelopes are concerned.

ZONE	KEY RANGE	NAME	NOTES			
1	B1 to E2	KICK	The key C#2 allows for non-finish envelope sounds.			
	(6 keys)					
2	F2 to D3	SNARE	Includes sidestick—the keys from A2-C3 allow for non-finish envelope sounds			
	(10 keys)		(Snare rolls, brush swirls, etc.)			
3	D#3 to C4	HATS	The keys G#3 and B3 allow for non-finish envelope sounds (closed hats first,			
	(10 keys)		opens on A#3 and B3; foot closed on C4).			
4	C#4 to A4	CYMBL	The key A4 allows for non-finish envelope sounds (rides C#4 to E4; followed by			
	(9 keys)		crashes).			
5	A#4 to F#5	TOMS	All keys in finish envelope mode.			
	(9 keys)					
6	G5 to C#6	PERC1	Shaken or small hits—tambourine (G5 to A5); shaker, cabasa, or maracas (A#5 to			
	(7 keys)		C6); claps (C#6); snap; woodblock			
7	D6 to G6	PERC ₂	Latin non-pitched Percussion—bongo; conga slap; low conga; high conga;			
	(6 keys)		timbale			
8	G#6 to D7	PERC3	Pitched and Bell-like Percussion—Triangle (A6 closed, A#6 long); cowbell (G#6);			
	(7 keys)		high agogo: low agogo; claves (B6, or at D#6 if there are no congas); vinyl surface noise (C7). The keys from B6-D7 allow for non-finish envelope sound			

ENSONIQ Percussion Map

Percussion kits are subject to the same zone rules as drum kits. Within some of the zones there are single keys and/or groups of keys designed to be in finish mode as far as their envelopes are concerned.

The ZR-76 percussion map consists of eight zones:

ZONE	KEY RANGE	NAME	NOTES	
1	B1 to E2	KICK	Low Drums—the key C#2 allows for non-finish envelope sounds.	
	(6 keys)			
2	F2 to D3	SNARE	Medium drums such as Conga, Tabla, Udu—the keys from A2-C3 allow for non-	
	(10 keys)		finish envelope sounds.	
3	D#3 to C4	HATS	Small things that keep time (shakers, small drums, etc) Clave (G#3); sleighbells,	
	(10 keys)		castanets (C4). The keys G#3 and B3 allow for non-finish envelope sounds.	
4	C#4 to A4	CYMBL	Small time-keeping instruments including ride cymbals and instruments like	
	(9 keys)		Guiro (C#4 to E4);. crash cymbals, or other accent instruments like windchime, vibraslap, gong (F4 to A4). The key A4 allows for non-finish envelope sounds.	
5	A#4 to F#5	TOMS	Things struck that play fills—like timbali, woodblocks, log drums, small pitched	
	(9 keys)		drums.	
6	G5 to C#6	PERC1	Tambourines or similar shaken instruments (G5-A5); small high-pitched shakers	
	(7 keys)		like maraccas, egg shakes (A#5 - C6); claps, clave (C#6)	
7	D6 to G6	PERC ₂	Multi hits of bongos, high drums, cuica, guiro (D6-E6); multi hits of agogo, or	
	(6 keys)		other metallic inst. (F6-G6)	
8	G#6 to D7	PERC ₃	Cowbell (G#6); Triangle (A6 closed, A#6 long); Long sounds like rainsticks	
	(7 keys)		D7) The keys from B6-D7 allow for non-finish envelope sounds.	

Note: Percussion map zones use the drum map zone names when viewed in the Drum Machine Edit pages.

Built-In ROM Presets

Location	Preset	Location	Preset	Location	Preset	Location	Preset
ROM004:000	DefaultPset	ROM004:008	SynBs/RzClv	ROM004:016	ElPno/Vibes	ROM004:024	BsnOboe-Ped
ROM004:001	Piano+Strgs	ROM004:009	BigFatSynth	ROM004:017	ElPno/JzGtr	ROM004:025	PizArco-Ped
ROM004:002	ElPnoStrLyr	ROM004:010	Org/SqueaLd	ROM004:018	BoneSaxTrpt	ROM004:026	StrngSwpPad
ROM004:003	Piano Blend	ROM004:011	UprBs/Piano	ROM004:019	NyGtr/SopSx	ROM004:027	Harp Pad
ROM004:004	Lwr/UprMnul	ROM004:012	Bs/ElPnoPed	ROM004:020	MariachiBnd	ROM004:028	WetBelChoir
ROM004:005	OrgClavLyr	ROM004:013	Piano/Sax	ROM004:021	AcGtr/PnFlt	ROM004:029	IceMakerPad
ROM004:006	RubberWurly	ROM004:014	Pno/Mut-Flt	ROM004:022	ChicknPickn	ROM004:030	PercRainPad
ROM004:007	PipeLyr-Ped	ROM004:015	PnoStr/AcGtr	ROM004:023	Clo/Vln-Ped	ROM004:031	IslandStack
			•	•		ROM005:000	FarEastPhaz

Velocity Response Curves in the ZR-76

The Touch Curve parameter allows you to adjust the velocity response of the ZR-76 keyboard to match your playing style and technique. There are six velocity curve (touch) settings:

- Table-1 This is for someone with a light touch. On this setting, it is easier to reach the maximum level of any velocity controlled parameter.
- Table-2 This setting represents average velocity sensitivity. This setting should be right for most
 players.
- Table-3 This velocity best represents the "classically-trained" player with strong fingers, and offers a wide dynamic range for skilled pianists.
- Table-4 This velocity setting is for skilled players who desire morevolume for softer playing. It still requires strong playing to reach the top velocity levels.
- Fixed 64 With this setting the velocity curve always generates a fixed value, set at the halfway point. This may be useful in simulating vintage synth sounds that originally had no velocity control.
- Fixed 127 This setting is also a fixed velocity curve, with full volume. This is good for playing drum/percussion parts when you want a part without dynamic changes.

List of Quantize Templates

The following is a list of all the quantize parameters and their settings for the available quantize templates (there is no data recorded for High Key and Low Key):

Name	Q. to:	Strength	Swing	Random	Shift	Win. Min	Win. Max.	Q Offs?	Move Offs?	Deltas
Strict 1/4	1/4	100	50	0	0	0	50	off	on	off
Strict 1/8	1/8	100	50	0	0	0	50	off	on	off
Strict 1/16	1/16	100	50	0	0	0	50	off	on	off
Strict 1/8T	1/8T	100	50	0	0	0	50	off	on	off
Tighten 1	1/8	5	50	0	0	0	50	off	on	off
Tighten 2	1/8	20	50	0	0	0	50	off	on	off
Tighten 3	1/8	50	50	0	0	0	50	off	on	off
Tighten 4	1/8	70	50	0	0	0	50	off	on	off
Tighten 5	1/16	5	50	0	0	0	50	off	on	off
Tighten 6	1/16	20	50	0	0	0	50	off	on	off
Tighten 7	1/16	50	50	0	0	0	50	off	on	off
Tighten 8	1/16	70	50	0	0	0	50	off	on	off
Randomize 1	1/8	50	50	3	0	0	50	off	on	off
Randomize 2	1/8	60	50	15	0	0	50	off	on	off
Randomize 3	1/16	50	50	3	0	0	50	off	on	off
Randomize 4	1/16	60	50	15	0	0	50	off	on	off
Note Offs 1	1/8	100	50	0	0	0	50	on	on	off
Note Offs 2	1/16	100	50	0	0	0	50	on	on	off
Swing 1	1/16	90	55	0	0	0	50	off	on	off
Swing 2	1/16	92	57	1	0	0	50	off	on	off
Swing 2	1/16	100	63	0	0	0	50	off	on	off
Humanize 1	1/16	75	51	2	0	0	50	off	on	off
Delta 1/8	1/8	100	50	0	0	0	50	off	on	on

What Is MIDI?

Musical instrument and computer manufacturers have agreed upon a set of standards that allows their products to communicate with each other. It's called "MIDI," an acronym for "Musical Instrument Digital Interface." There are two basic aspects to the MIDI standards: the kind of wiring to be used for connecting MIDI devices, and the nature of messages will be sent through those wires.

Life In The MIDI World

MIDI has opened up incredible possibilities for musicians and music lovers alike. Here are some of the things MIDI has made possible:

- Musicians can record their performances into MIDI recorders—called sequencers—which are found in keyboard workstations, such as the ZR-76, in stand-alone boxes, and in computers. Once recorded, MIDI-recorded performances can be tweaked and nudged to perfection. Musical arrangements can be re-orchestrated after they've been recorded. Full-blown multi-instrument recordings can be easily created.
- Keyboardists can connect their instruments to a myriad of sound-producing MIDI boxes. MIDI allows a conventional-looking keyboard, such as the ZR-76, to control a number of such devices at the same time, providing for the creation of new, complex timbres. Keyboardists can also set up specific areas on their keyboards to control specific external MIDI devices. These same capabilities are available to computer users. Actually, most musical instruments can be outfitted to control MIDI devices.
- Musicians can benefit from the communication possible between MIDI instruments and computers to program sounds for their instruments on their computers, taking advantage of the computers' large graphic displays, familiar keyboards and comfortable mice.
- Home enthusiasts can enjoy pre-recorded MIDI music by taking advantage of General MIDI, a separate-but-related standard described later in this section. General MIDI (GM) sequences can be performed by any GM-compliant MIDI sequencer, such as the ZR-76, or personal computer.
- Internal data from one MIDI device can be transmitted to another for storage.
- · Recording engineers can control mixing consoles and effects devices with MIDI.
- Stage lights in concert halls can be automated to respond to musical cues using MIDI.

Understanding MIDI

MIDI Hardware

The architects of MIDI had to settle, first of all, on the MIDI hardware: the wires. All MIDI cables have the same kind of plug on either end:



There are three MIDI sockets, or *jacks*, on the back of most MIDI instruments. The *MIDI In* jack is for MIDI information coming into the instrument. The instrument sends out its own MIDI information through the *MIDI Out* jack. The *MIDI Thru* jack is for MIDI data that passes through the instrument unchanged, on its way to some other MIDI device.

MIDIThru MIDIOut MIDIIn



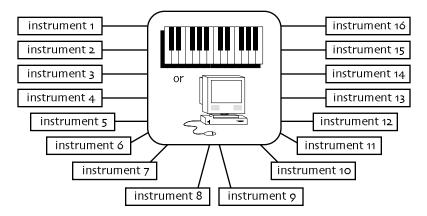




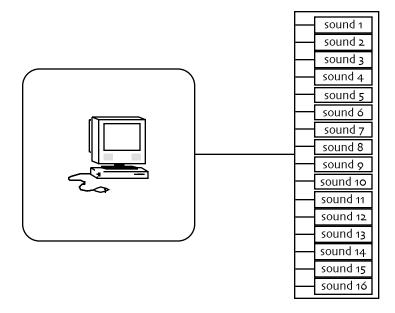
The MIDI cable itself can carry 16 independent channels of MIDI information that travel together through the wire. This means that you can have 16 separate MIDI conversations going on at once among instruments and/or computers connected together with MIDI cables.

How MIDI Channels Work

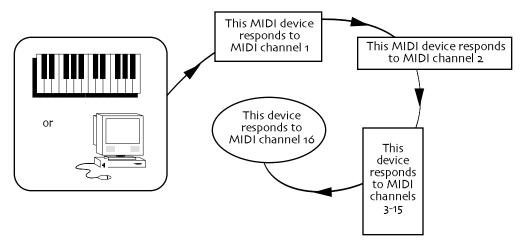
MIDI instruments can be set up to listen to specific channels and ignore everything else that's going on. This allows a central device such as the ZR-76 or your personal computer to control each instrument individually.



Some devices—such as the ZR-76—are capable of responding to as many as 16 channels at once. Such instruments are referred to as being *multi-timbral*—it's as if there are up to 16 musical instruments in one box, and MIDI allows you to control each sound separately.



MIDI rigs can also combine both possibilities, with some instruments programmed to respond to one MIDI channel or another, and multi-timbral devices set up to receive up to 16 channels at once.



MIDI messages travel up and down all these channels, and these constitute the second major component of the MIDI Spec.

How MIDI Messages Work

MIDI works in a manner reminiscent of the old player pianos, whose sheets of hole-punched paper told the keyboard mechanism which keys to press down and when. It's not sound that's sent through MIDI cables; it's instructions from one MIDI device—called the "controller"—to another. Of course, MIDI generally doesn't cause any keys to physically move.

Suppose a keyboardist presses a note on a keyboard which is controlling some sound-producing MIDI box. The controller would send out a *Key Down* message for that note. The MIDI box receiving such a message would play the note. When the keyboardist lets go, the controller would send out a *Key Up* message, and the receiving device would stop sounding the note. At heart, it's as simple at that.

MIDI captures the expressive nuances in a performance by sending out other kinds of messages. Controllers can sense how hard a musician plays—referred to in the MIDI world as *velocity*—and can instruct other devices to respond accordingly. Sustain and sostenuto foot pedals also send out MIDI messages. There are many tools for expression that can be transmitted and responded to via MIDI.

To tell a MIDI instrument which sound or effect program you want to hear, you would send a MIDI *Program Change*.

MIDI can also send messages that have the same effect as pushing buttons and twirling knobs on a receiving device. To make sure that only the intended instrument listens to such instructions, MIDI sends it a special greeting in a language only it can understand. Every MIDI device has such a language, and these "hey there" messages are referred to as "System Exclusive headers." System Exclusive data is often referred to as SysEx data. SysEx is also used for the "dumping" of a MIDI instrument's memory to an external storage device, such as a hard disk or floppy drive; it helps the data find its way back home when it's time to load it back into the instrument.

In MIDI recording, all of the messages that a controller produces are sent to a sequencer. Most sequencers have Record, Stop and Play buttons, since they're usually designed to resemble tape recorders. When the Record button is pressed, the sequencer captures incoming MIDI information. Pressing Stop tells the sequencer to store that information in its memory. When Play is pressed, it sends it back out.

The Art of MIDI

The fact that MIDI is so simple to use is a testament to the cleverness of its designers. Its true magic, however, lies in MIDI's power as a tool in the creative process, and in the imaginations of those artists who wield it.

What Is General MIDI?

General MIDI is an agreed-upon set of sounds and protocols which aims to ensure that, no matter what brand or model General MIDI-compatible instrument you use when playing a General MIDI recording, the music will sound essentially the same. General MIDI provides a tremendous convenience for listeners and multimedia fans who want to enjoy MIDI-based music without having to delve too deeply into its mechanics. All General MIDI-supporting products sport the General MIDI logo:



The ZR-76 is fully General MIDI-compliant instruments. General MIDI accomplishes its predictability by employing a very specific set of agreements on a number of MIDI issues.

General MIDI Sounds

In the larger MIDI universe, any sound may reside anywhere in an instrument's memory. In the General MIDI world, the same sounds always reside in the same-numbered memory locations. This guarantees that if a programmer calls up a particular sound when he or she programs some General MIDI music, any time anyone anywhere plays that music back on a General MIDI instrument, that same sound will be invoked. See "List of General MIDI Sounds" in this chapter for a full list of the General MIDI sounds.

General MIDI Drum Kits

Another important convention employed by General MIDI instruments are the General MIDI drum maps. The GM drum maps are available in several different styles, with a different drum or percussion sound on every key on the keyboard, running from the B two octaves below Middle C to the D# or E two octaves above. Some sounds in the GM drum maps are consistent from style to style—the low key on a 61-note keyboard will always be a bass drum of some kind and the note two semitones above it will always be a snare drum, for instance. Drum maps in General MIDI are always addressed via MIDI channel number 10. See "General MIDI Drum Maps" in this chapter for details of the various General MIDI drum map layouts.

Earning the General MIDI Logo

There are a number of other standards with which an instrument must comply in order to deserve its General MIDI logo. You can be sure that, if the MIDI music you purchase displays the General MIDI logo, it will work perfectly with your ZR-76.

General MIDI Sound Map

The following map shows the General MIDI sound name and program change number of each sound as they appear in the ZR-76. This map also shows how General MIDI divides the instruments into 16 categories of similar sounds:

PROG	INSTRUMENT	PROG	INSTRUMENT	PROG	INSTRUMENT	PROG	INSTRUMENT
#		#		#		#	
0-7	PIANO	32-	BASS	64-	REED	96-	SYNTH
0	Piano 1	39	Ac.Bass	71	Sop.Sax	103	EFFECTS
1	Piano 2	32	FingBass	64	Alto Sax	96	Ice Rain
2	Piano 3	33	PickBass	65	TenorSax	97	Soundtrk
3	HonkyTnk	34	FrtlsBas	66	Bari.Sax	98	Crystal
4	E.Piano1	35	SlapBs1	67	Oboe	99	Atmspher
5	E.Piano2	36	SlapBs2	68	Eng.Horn	100	Britness
6	Harpsi.	37	SynBass1	69	Bassoon	101	Goblin
7	Clavinet	38	SynBass2	70	Clarinet	102	EchoDrop
		39		71		103	StarThm.
8-15	CHROM	40-	STRINGS	72-	PIPE	104-	ETHNIC
8	PERCUSSION	47	Violin	79	Piccolo	111	Sitar
9	Celesta	40	Viola	72	Flute	104	Banjo
10	Glockens	41	Cello	73	Recorder	105	Shamisen
11	Musicbox	42	CntrBass	74	PanFlute	106	Koto
12	Vibes	43	TremStrg	75	BotlBlow	107	Kalimba
13	Marimba	44	PizzStrg	76	Shaku.	108	Bagpipe
14	Xylophon	45	Harp	77	Whistle	109	Fiddle
15	Tubular	46	Timpani	78	Ocarina	110	Shannai
	Santur	47		79		111	
16-	ORGAN	48-	ENSEMBLE	80-	SYNTH LEAD	112-	PERCUSSIVE
23	Organ 1	55	Strings	87	SquareWv	119	TinklBell
16	Organ 2	48	SlowStrg	80	Saw Wv	112	Agogo
17	Organ 3	49	SynStrg1	81	SynCalio	113	SteelDrm
18	Ch.Organ	50	SynStrg2	82	Chiff.Ld	114	Woodblok
19	ReedOrgn	51	ChoirAah	83	Charang	115	Taiko
20	Accord.	52	Vox Oohs	84	Solo Vox	116	MeloTom1
21	Harmnica	53	Syn.Vox	85	5ths Wv	117	Syn.Drum
22	Bandneon	54	Orch.Hit	86	Bs.&Lead	118	Rev.Cym.
23		55		87		119	
24-	GUITAR	56-	BRASS	88-	SYNTH PAD	120-	SOUND
31	NylonGtr	63	Trumpet	95	Fantasia	127	EFFECTS
24	SteelGtr	56	Trombone	88	Warm Pad	120	FretNois
25	Jazz Gtr	57	Tuba	89	PolySyn.	121	BrthNois
26	CleanGtr	58	MuteTrpt	90	SpaceVox	122	Seashore
27	Mute Gtr	59	Fr.Horn	91	BowedGls	123	Birds
28	OvDrvGtr	60	Brass 1	92	MetalPad	124	Telephon
29	Dist.Gtr	61	SynBrs.1	93	Halo Pad	125	Hlicoptr
30	Gtr.Harm	62	SynBrs.2	94	SweepPad	126	Applause
31		63		95		127	Gunshot

The names listed above are as they appear in the ZR-76, and not as they appear in the General MIDI Spec. The only differences are in spelling.

GM and GS Percussion Key Maps (Channel 10)

MIDI Note #		o - Std.Kit-GM 32 - Jazz Kit-GM	8 - RoomKit-GM	16 - Pwr. Kit-GM	24 - Elec Kit-GM	25 - SynthKit-GM
35	B1	AcoustcKick	AcoustcKick	AcoustcKick	AcoustcKick	AcoustcKick
36	C2	Bright Kick	Bright Kick	Fat Kick1	Elec Kick1	Syn Kick-GM
37	C#2	SideStick 1	SideStick 1	SideStick 1	SideStick 1	SynRimshot
38	D ₂	Snare-GM	Snare-GM	Snare-GM	Elec Sn-GM	Syn Snr-GM
39	D#2	HouseClap1	HouseClap1	HouseClap1	HouseClap1	HouseClap1
40	E ₂	Rock Snare	Rock Snare	Gated Sn-GM	Gated Sn-GM	Rock Snare
41	F ₂	Dry Tom 1	Room Tom 1	Room Tom 1	Elec Tom-GM	Syn Tom-GM
42	F#2	4xCl Hat3	4xCl Hat3	4xCl Hat3	4xCl Hat3	SynClHat-GM
43	G2	Dry Tom 1	Room Tom 1	Room Tom 1	Elec Tom-GM	Syn Tom-GM
44	G#2	Pedal Hat	Pedal Hat	Pedal Hat	Pedal Hat	SynClHat-GM
45	A2	Dry Tom 1	Room Tom 1	Room Tom 1	Elec Tom-GM	Syn Tom-GM
46	A#2	OpenHat-GM	OpenHat-GM	OpenHat-GM	OpenHat-GM	SynOpHat-GM
47	B2	Dry Tom 1	Room Tom 1	Room Tom 1	Elec Tom-GM	Syn Tom-GM
48	C3	Dry Tom 1	Room Tom 1	Room Tom 1	Elec Tom-GM	Syn Tom-GM
49	C#3	Crash 1-GM	Crash 1-GM	Crash 1-GM	Crash 1-GM	8o8 Cymbal
50	D ₃	Dry Tom 1	Room Tom 1	Room Tom 1	Elec Tom-GM	Syn Tom-GM
51	D#3	Ride 1-GM	Ride 1-GM	Ride 1-GM	Ride 1-GM	Ride 1-GM
52	E ₃	China 1-GM	China 1-GM	China 1-GM	R.Crash-GM	China 1-GM
53	F3	RideBell-GM	RideBell-GM	RideBell-GM	RideBell-GM	RideBell-GM
54	F#3	Tambourine	Tambourine	Tambourine	Tambourine	Tambourine
55	G3	Splash1-GM	Splash1-GM	Splash1-GM	Splash1-GM	Splash1-GM
56	G#3	Cowbell	Cowbell	Cowbell	Cowbell	Syn Cowbell
57	A3	Crash 1-GM	Crash 1-GM	Crash 1-GM	Crash 1-GM	Crash 1-GM
58	A#3	Vibraslap	Vibraslap	Vibraslap	Vibraslap	Vibraslap
59	В3	Ride 1-GM	Ride 1-GM	Ride 1-GM	Ride 1-GM	Ride 1-GM
60	C4	Bongo	Bongo	Bongo	Bongo	Bongo
61	C#4	Bongo	Bongo	Bongo	Bongo	Bongo
62	D4	Conga Mute	Conga Mute	Conga Mute	Conga Mute	SynHiCongGM
63	D#4	Conga High	Conga High	Conga High	Conga High	SynHiCongGM
64	E4	Conga Low	Conga Low	Conga Low	Conga Low	SynLoCongGM
65	F4	Timbali	Timbali	Timbali	Timbali	Timbali
66	F#4	Timbali	Timbali	Timbali	Timbali	Timbali
67	G4	Agogo	Agogo	Agogo	Agogo	Agogo
68	G#4	Agogo	Agogo	Agogo	Agogo	Agogo
69	A4	Cabasa	Cabasa	Cabasa	Cabasa	Cabasa
70	A#4	Maracas	Maracas	Maracas	Maracas	Syn Maracas
71	B4	Whistle B	Whistle B	Whistle B	Whistle B	Whistle B
72	C5	Whistle A	Whistle A	Whistle A	Whistle A	Whistle A
73	C#5	Guiro Short	Guiro Short	Guiro Short	Guiro Short	Guiro Short
74	D5	Guiro Long	Guiro Long	Guiro Long	Guiro Long	Guiro Long
75	D#5	Clave Woodblock 1	Clave Woodblock 1	Clave Woodblock 1	Clave Woodblock 1	Synth Clave Woodblock 1
76 77	E5 F5	Woodblock 1	Woodblock 1	Woodblock 1	Woodblock 1	Woodblock 1 Woodblock 1
77 78	F#5	Cuica 1	Cuica 1	Cuica 1	Cuica 1	Cuica 1
	G5	Cuica 5	Cuica 1	Cuica 1	Cuica 1	Cuica 1
79 80	G#5	Tri Mute-GM	Tri Mute-GM	Tri Mute-GM	Tri Mute-GM	Tri Mute-GM
81	A5	Tri Open-GM	Tri Open-GM	Tri Open-GM	Tri Open-GM	Tri Open-GM
82	A#5	Shaker	Shaker	Shaker	Shaker	Shaker
83	B5	Sleighbell	Sleighbell	Sleighbell	Sleighbell	Sleighbell
84	C6	WindchimeGM	WindchimeGM	WindchimeGM	WindchimeGM	WindchimeGM
85	C#6	Castanets 1	Castanets 1	Castanets 1	Castanets 1	Castanets 1
86	D6	Mt Surdo-GM	Mt Surdo-GM	Mt Surdo-GM	Mt Surdo-GM	Mt Surdo-GM
87	D#6	Op Surdo-GM	Op Surdo-GM	Op Surdo-GM	Op Surdo-GM	Op Surdo-GM
88	E6	Silence	Silence	Silence	Silence	Silence
00	ΕO	SHEFFICE	SHELLCE	SHEFFICE	Sileffice	Shelice

GM and GS Percussion Key Maps (Channel 10)

MIDI Note #		40 - Brsh Kit-GM	48 - Orch Kit-GM	64 - DanceKit-GM	65 - TeknoKit-GM	66 - FormtKit-GM
35	B1	AcoustcKick	Big Kick1	Boom Kik C	PtchDwnKik3	HouseKick2
36	C2	Bright Kick	ConcrtBD-GM	PtchDwnKik3	PtchDwnKik1	HouseKick1
37	C#2	SideStick 1	SideStick 1	SideStick 1	House Rim	House Rim
38	D2	Brush Tap	ConcrtSnare	CrackSnare1	House Snare1	House Snare1
39	D#2	Brush Slap	Castanets 1	HouseClap1	Stereo Clap	HouseClap1
40	E2	Brush Swish	ConcrtSnare	HiPass Snr2	HiPass Snr3	HouseSnare4
41	F2	Dry Tom 1	Tympani	HouseTom1	HouseTom1	HouseTom1
42	F#2	4xCl Hat3	Tympani	4xCl Hat3	HouseClHat2	HouseClHat1
43	G2	Dry Tom 1	Tympani	HouseTom1	HouseTom1	HouseTom ₂
44	G#2	Pedal Hat	Tympani	Pedal Hat	HouseClHat2	Pedal Hat
45	A2	Dry Tom 1	Tympani	HouseTom1	HouseTom1	HouseTom1
46	A#2	OpenHat-GM	Tympani	ShrtOpHat 1	HouseOpHat2	HouseOpHat1
47	B2	Dry Tom 1	Tympani	HouseTom1	HouseTom1	HouseTom ₂
48	C3	Dry Tom 1	Tympani	HouseTom1	HouseTom1	HouseTom1
49	C#3	Crash 1-GM	Tympani	HouseCrash2	HouseCrash2	HouseCrash1
50	D ₃	Dry Tom 1	Tympani	HouseTom1	HouseTom1	HouseTom2
51	D#3	Ride 1-GM	Tympani	Cool Ride 1	Cool Ride 1	HouseRide1
52	E3	China 1-GM	Tympani	Gong mf	Gong mf	China Crash
53	F ₃	RideBell-GM	Tympani	HouseRide2	HouseRide1	Ride Bell
54	F#3	Tambourine	Tambourine	Dyn.Tambo	Dyn.Tambo	Tambourine
55	G3	Splash1-GM	Splash1-GM	ChokeSplash	ChokeSplash	SplashCym 1
56	G#3	Cowbell	Cowbell	Cowbell	Cowbell	Cowbell
57	A3	Crash 1-GM	Crash 1-GM	8o8 Cymbal	8o8 Cymbal	Crash Cym 1
58	A#3	Vibraslap	Vibraslap	Vibraslap	Pole	Vibraslap
59	В3	Ride 1-GM	Piatti-GM	SizlRideCym	SizlRideCym	Ride Cym 1
60	C4	Bongo	Bongo	Bongo	Synth Drip	Bongo
61	C#4	Bongo	Bongo	Bongo	Synth Kiss	Bongo
62	D4	Conga Mute	Conga Mute	CongaLO/whl	SynLoCongGM	Conga Mute
63	D#4	Conga High	Conga High	CongaHi/whl	SynHiCongGM	Conga High
64	E4	Conga Low	Conga Low	CongaMoose1	SynLoCongGM	Conga Low
65	F4	Timbali	Timbali	Timbali	Timbali	Tambourine
66	F#4	Timbali	Timbali	Timbali	Timbali	Timbali
67	G4	Agogo	Agogo	Agogo	Agogo	Agogo
68	G#4	Agogo	Agogo	Agogo	Agogo	Agogo
69	A4	Cabasa	Cabasa	Cactus Hit1	Cactus Hit1	Cabasa
70	A#4	Maracas	Maracas	Egg Shaker	Egg Shaker	Maracas
71	В4	Whistle B	Whistle B	Synth Hit 1	Synth Hit 1	Whistle A
72	C5	Whistle A	Whistle A	Synth Hit 4	Synth Hit 2	Whistle A
73	C#5	Guiro Short	Guiro Short	Synth Hit 6	Synth Hit 3	HouseRide1
74	D ₅	Guiro Long	Guiro Long	Synth Hit 7	Synth Hit 4	Guiro Long
75	D#5	Clave	Clave	Synth Hit12	Synth Hit 5	Clave
76	E5	Woodblock 1	Woodblock 1	Synth Hit11	Synth Hit 6	Woodblock 1
77	F5	Woodblock 1	Woodblock 1	Wakka 1	Synth Hit 7	Woodblock 1
78	F#5	Cuica 1	Cuica 1	Wakka 3	Synth Hit 8	Cuica 1
79	G5	Cuica 5	Cuica 5	Wakka 5	Synth Hit 9	Cuica 1
80	G#5	Tri Mute-GM	Tri Mute-GM	Wakka 7	Synth Hit 10	Triangle Mt
81	A5	Tri Open-GM	Tri Open-GM	Scratch 1	Synth Hit 11	Triangle Op
82	A#5	Shaker	Shaker	Scratch 2	Synth Hit 12	Cym Swell2
83	B5	Sleighbell	Sleighbell	Scratch 3	Synth Hit 10	AltRevCrash
84	C6	WindchimeGM	WindchimeGM	Scratch 4	Synth Hit 10	HiPass Kikı
85	C#6	Castanets 1	Castanets 1	Scratch 6	Synth Hit 8	Synth Hit 4
86	D6	Mt Surdo-GM	Mt Surdo-GM	Scratch 10	Synth Hit 7	HiPass Snr1
87	D#6	Op Surdo-GM	Op Surdo-GM	Scratch 11	Synth Hit 5	HouseClap2
88	E6	Silence	Applause-GM	Silence	Silence	HiPass Snr2

ZR-76 MIDI Implementation

The ZR-76 features an extensive MIDI (Musical Instrument Digital Interface) implementation. For normal applications, you will find all the information you need regarding the ZR-76's MIDI functions in this manual. You can also refer to the following MIDI Implementation Chart for a summary of the ZR-76 MIDI implementation.

If you are writing a computer program to communicate with the ZR-76 via MIDI, or otherwise require a copy of the full MR-76 System Exclusive Specification, it is available free of charge by writing to:

ENSONIQ Corp. MIDI Specification Desk 155 Great Valley Parkway P.O. Box 3035 Malvern PA 19355-0735 USA

Include in your written request your name and address, and indicate that you would like a copy of the "MR-76 System Exclusive Specification." Please allow 2 to 3 weeks for delivery.

ZR-76

MIDI Implementation Chart

Version: 1.45

Function		Transmitted	Recognized	Remarks
Basic Channel	Default Changed	1 1-16	1-16 1-16	Each of ZR-76's 16 tracks may be set to any MIDI channel
Mode	Default Messages Altered	POLY X X	MULTI X X	
Note Number	True voice	21-108	21-108	Note reception is filtered by Key Lo and Key High track parameters
Velocity	Note On Note Off	0	0	Note On velocity reception is filtered by VelocityRange Lo and VelocityRange Hi track parameters Note Off velocity is filtered by VelocityRange Lo and VelocityRange Hi track parameters when modulating keyup layers
After Touch	Key Channel	0	O O	ZR keyboard produces channel pressure only
Pitch Bend		0	0	supports held mode
Control Change		0-119	0-119	see "MIDI Controllers Behavior" below
Program Change	True#	0-119 0-119	0-119 0-119	select sounds from the currently selected bank invalid program changes select silent sound
System Excl	usive	0	O	see MR-76 SysEx Specification recognizes Universal Non-Real Time SysEx General MIDI On/Off messages recognizes MIDI Tuning Dump Standard and Single-Note Tuning Change messages
System Common	Song Position Song Select Tune Request	O X X	O X X	
System Real Time	Clock Commands	O X	0 X	
Aux Messages	Local On/Off All Notes Off Active Sensing System Reset	x o x x	X O X X	
Response to received Controllers varies depending on the nature of the ZR-76 parameter affected—see parameter descriptions for details Notes When the ZR-76 is configured for General MIDI, Bank Select reception is disabled, and new sequences cannot be selected by program changes—see "Using the ZR-76 with General MIDI Standard MIDI Files", in Chapter 3				

Mode 1: Omni On, Poly Mode 3: Omni Off, Poly Mode 2: Omni On, Mono Mode 4: Omni Off, Mono

O : Yes X: No

MIDI Controllers Reception Behavior

Control Change	Description	Remark
0-119	SysCTRL 1-4	assignable controllers
0	Bank Select MSB	always o
1	Mod Wheel	
4	Foot (Pedal)	
5	Portamento Time	
6	Data Entry MSB	for editing of registered and non-registered parameters only, after registered or non-registered parameter MSB and LSB are received
7	Volume	
10	Pan	
11	Expression Controller	
32	Bank Select LSB	
64	Sustain	
65	Portamento On/Off	
66	Sustenuto	
72	Release Time	Amp Env Release
73	Attack Time	Amp Env Attack
74	Brightness	Filter Cutoff
75	Sound Controller 6	Normal LFO Rate
76	Sound Controller 7	Amp Env Decay
91	Effects 1 Depth	GM reverb depth, described in "Adding Effects to Tracks," <i>Chapter 8</i>
93	Effect 2 Depth	GM chorus depth, described in "Adding Effects to Tracks," <i>Chapter 8</i>
98	Non-Reg. Param. Select LSB	Track parameter descriptions in <i>Chapter 4</i> list track parameters' Non-Registered parameter LSB values
99	Non-Reg. Param. Select MSB	always o
100	Reg. Param. Select LSB	always o, 1 or 2 only
101	Reg. Param. Select MSB	always o

List of MIDI Controller Names

This list of MIDI Controller names (as found in the ZR-76) represents the current state-of-the-art MIDI controller assignments as defined in the MIDI Detailed Specification, version 95.1:

Bank Select #000 - Bank Select	Expression#043 - Expression LSB	MIDIContrl#086 - UNDEFINED
Mod Wheel #001 - Mod Wheel or Lever	FXControl1#044 - Effect Control 1 LSB	MIDIContrl#087 - UNDEFINED
Breath #002 - Breath Controller	FXControl2#045 - Effect Control 2 LSB	MIDIContrl#088 - UNDEFINED
MIDIContrl#003 - UNDEFINED	MIDIContrl#046 - UNDEFINED	MIDIContrl#089 - UNDEFINED
FootContrl#004 - Foot Controller	MIDIContrl#047 - UNDEFINED	MIDIContrl#090 - UNDEFINED
Glide Time#005 - Portamento Time	GenPurpse1#048 - UNDEFINED	FX Depth 1#091 - Effects Depth 1
Data Entry#006 - Data Entry MSB	GenPurpse2#049 - General Purpose 1 LSB	FX Depth 2#092 - Effects Depth 2
Volume #007 - Volume	GenPurpse3#050 - General Purpose 2 LSB	FX Depth 3#093 - Effects Depth 3
Balance #008 - Balance	GenPurpse4#051 - General Purpose 3 LSB	FX Depth 4#094 - Effects Depth 4
MIDIContrl#009 - UNDEFINED	MIDIContrl#052 - General Purpose 4 LSB	FX Depth 5#095 - Effects Depth 5
Pan #010 - Pan	MIDIContrl#053 - UNDEFINED	Data Inc #096 - Data Inc
Expression#011 - Expression	MIDIContrl#054 - UNDEFINED	Data Dec #097 - Data Dec
FX Control1#012 - Effect Control 1	MIDIContrl#055 - UNDEFINED	NonRgPmLSB#098 - Non-Reg param Num LSB
FX Control2#013 - Effect Control 2	MIDIContrl#056 - UNDEFINED	NonRgPmMSB#099 - Non-Reg param Num MSB
MIDIContrl#014 - UNDEFINED	MIDIContrl#057 - UNDEFINED	RgParamLSB#100 - Reg param Num LSB
MIDIContrl#015 - UNDEFINED	MIDIContrl#058 - UNDEFINED	RgParamMSB#101 - Reg param Num MSB
GenPurpse1#016 - General Purpose 1	MIDIContrl#059 - UNDEFINED	MIDIContrl#102 - UNDEFINED
GenPurpse2#017 - General Purpose 2	MIDIContrl#060 - UNDEFINED	MIDIContrl#103 - UNDEFINED
GenPurpse3#018 - General Purpose 3	MIDIContrl#061 - UNDEFINED	MIDIContrl#104 - UNDEFINED
GenPurpse4#019 - General Purpose 4	MIDIContrl#062 - UNDEFINED	MIDIContrl#105 - UNDEFINED
MIDIContrl#020 - UNDEFINED	MIDIContrl#063 - UNDEFINED	MIDIContrl#106 - UNDEFINED
MIDIContrl#021 - UNDEFINED	Sustain #064 - Sustain	MIDIContrl#107 - UNDEFINED
MIDIContrl#022 - UNDEFINED	PortOn/Off#065 - Portamento On/Off	MIDIContrl#108 - UNDEFINED
MIDIContrl#023 - UNDEFINED	Sostenuto #o66 - Sostenuto	MIDIContrl#109 - UNDEFINED
MIDIContrl#024 - UNDEFINED	Soft Pedal#067 - Soft Pedal	MIDIContrl#110 - UNDEFINED
MIDIContrl#025 - UNDEFINED	LegatoFtsw#o68 - Legato Ftsw	MIDIContrl#111 - UNDEFINED
MIDIContrl#026 - UNDEFINED	Hold 2 #069 - Hold 2	MIDIContrl#112 - UNDEFINED
MIDIContrl#027 - UNDEFINED	PatchSelct#070 - Snd Variation (Patch Select)	MIDIContrl#113 - UNDEFINED
MIDIContrl#028 - UNDEFINED	Timbre #071 - Harmonic Content (Timbre)	MIDIContrl#114 - UNDEFINED
MIDIContrl#029 - UNDEFINED	Release #072 - Release	MIDIContrl#115 - UNDEFINED
MIDIContrl#030 - UNDEFINED	Attack #073 - Attack	MIDIContrl#116 - UNDEFINED
MIDIContrl#031 - UNDEFINED	Brightness#074 - Brightness	MIDIContrl#117 - UNDEFINED
BankSelect#032 - Bank Select LSB	SoundCntl6#075 - Sound Controller 6	MIDIContrl#118 - UNDEFINED
Mod Wheel #033 - Mod Wheel LSB	SoundCntl7#076 - Sound Controller 7	MIDIContrl#119 - UNDEFINED
Breath #034 - Breath Controller LSB	SoundCntl8#077 - Sound Controller 8	
MIDIContrl#035 - UNDEFINED	SoundCntl9#078 - Sound Controller 9	
FootContrl#036 - Foot Controller LSB	SoundCtl10#079 - Sound Controller 10	
Glide Time#037 - Portamento Time LSB	GenPurpse5#080 - General Purpose 5	
Data Entry#038 - Data Entry LSB	GenPurpse6#081 - General Purpose 6	
Volume #039 - Volume LSB	GenPurpse7#082 - General Purpose 7	
Balance #040 - Balance LSB	GenPurpse8#083 - General Purpose 8	
MIDIContrl#041 - UNDEFINED	Portamento#084 - Portamento Control	
Pan #042 - Pan LSB	MIDIContrl#085 - UNDEFINED	

Note: Controllers #000-031 are the MSBs and #032-063 are the LSBs for controllers with 14 bit resolution, and their names are displayed identically in the list of values.

Reset All Controllers (MIDI controller 121) Reception Behavior

When the system ResetControlRecv=Off, the reset all controllers message will be ignored.

When system ResetControlRecv=On, the following MIDI messages and parameters on all tracks assigned to the MIDI channel on which the message was received will be reset to the following values:

Assignable SysCtrl1-4=000	Controller 008=064	Controller 070 to 071=000
Pitch Bend=center	Controller 009=000	Controller 072 to 079=064
Channel Pressure=000	Controller 010=064	Controllers 080 to 097=000
Polyphonic Pressure=000 for all 88 keys	Controller 011=127	Controller 098 to 101=cleared
Controllers 001 to 004=000	Controllers 012 to 031=000	Controllers 102 to 119=000
Controller 005=064	Controllers 033 to 064=000	Controllers 120 to 127=left unchanged
Controller oo6=ooo	Controller o65=000	
Controller 007=100	Controllers o66 to o69=000	

When system Track ParamReset=Off:

Controllers 005, and 070 to 079 will be left unchanged.

When system Track ParamReset=On:

Controllers 005, and 070 to 079 will be reset to the values listed above.

Track MIDI reception filters do not affect reception of the Reset All Controllers message.

Registered Parameters

Registered parameters 0, 1 and 2 are received multi-timbrally by the ZR-76. When received on a track's MIDI channel, RPN 0 affects the track's pitch bend up and down simultaneously: Pitch bend up is raised and pitch bend down is lowered by the same RPN value. RPNs 1 and 2 edit Semitone Shift and Fine Tuning parameters, respectively, when received on the track's MIDI channel.

Registered parameters must be transmitted to the ZR-76 as a Continuous Controller status byte followed by three consecutive Continuous Controller messages: The registered parameter MSB and LSB values select the track parameter that will be edited, and a Data Entry value invokes the track parameter's desired setting.

Controllers		
Number	Name	Value
101	Registered Parameter Select MSB (Most Significant Byte)	always o
100	Registered Parameter Select LSB (Least Significant Byte)	00, 01 or 02 (see below)
6	Data Entry MSB	o-127, desired track parameter setting
Registered Parame	ters	
Number	Name	ZR Parameter Range
00	Pitch Bend Range	o-12 (displayed as Pitch Bend Up =0-12 up; raises pitch; Pitch Bend Down=0-12 down
01	Fine Tuning	o-127 (displayed as -50 cents to +49 cents)

Non-Registered Parameters

Coarse Tuning

Non-registered parameters are received multi-timbrally by the ZR-76, affecting track parameters when received on the track's MIDI channel.

Non-registered parameters must be transmitted to the ZR-76 as a continuous controller status byte followed by three consecutive continuous controller messages. The non-registered parameter MSB and LSB select the track parameter, and a data entry value invokes the track parameter's desired setting.

0-127 (displayed as -64st to +63st)

Controllers Number	Name	Value
99	Non-Registered Parameter Select MSB (Most Significant Byte)	always o
98	Non-Registered Parameter Select LSB (Least Significant Byte)	see track parameter descriptions in <i>Chapter</i> 4 for each parameter's Non-Registered parameter LSB value
6	Data Entry MSB	o-127, desired track parameter setting

Registered and Non-Registered Parameters (RPN/NRPN)

Expression	Responds to MIDI controller 011 and NRPN LSB LSB 034.
FX Bus assignment (Insert, Chorus, LightReverb, MediumReverb, WetReverb, Dry)	Responds to MIDI NRPN LSB 033.
Pitch Bend Up	Responds to MIDI RPN LSB 000 and NRPN LSB 022.
Pitch Bend Down	Responds to MIDI RPN LSB 000 and NRPN LSB 023.
Octave Shift (-4oct to +4oct)	Responds to MIDI NRPN LSB 011.
Semitone Shift	Responds to MIDI RPN LSB 002.
Fine Tuning	Responds to MIDI RPN LSB 001.
Pitch Table	Responds to MIDI NRPN LSB 021.
Glide Mode	Responds to MIDI controller o65 (see below) and NRPN LSB 031. When a value of 64 or greater for MIDI controller o65 is received, glide is enabled for the part; values below 64 do not disable glide.
Glide Time	Responds to MIDI controller 005 and NRPN LSB 032.
Delay Offset (positive-only)	Responds to MIDI NRPN LSB 024.
Sync LFO&Noise (system tempo time division)	Responds to MIDI NRPN LSB 025.
Normal LFO Rates	Responds to MIDI controller 075 and NRPN LSB 008.
LFO Depth	Responds to MIDI NRPN LSB 009.
LFO Delay Time	Responds to MIDI NRPN LSB 010.
Amplitude Envelope Attack time	Responds to MIDI controller 073 and NRPN LSB 014.
Amplitude Envelope Decay time	Responds to MIDI controller 076 and NRPN LSB 015.
Amplitude Envelope Release time	Responds to MIDI controller 072 and NRPN LSB 016.
Filter Cutoff (lo-pass & hi-pass)	Responds to MIDI controller 074 and NRPN LSB 012.
Filter Envelope Attack time	Responds to MIDI NRPN LSB 017.
Filter Envelope Decay time	Responds to MIDI NRPN LSB 018.
Filter Envelope Release time	Responds to MIDI NRPN LSB 019.
Amp & Filter Envelope Velocity sensitivity	Responds to MIDI NRPN LSB 020.
Key Range Low limit	Responds to MIDI NRPN LSB 026.
Key Range High limit	Responds to MIDI NRPN LSB 027.
Velocity Range Low limit	Responds to MIDI NRPN LSB 028.
Velocity Range High limit	Responds to MIDI NRPN LSB 029.
Pressure Mode	Responds to MIDI NRPN LSB 030.
Velocity MIDI reception converter	Responds to MIDI NRPN LSB 035.
Mute button	Responds to MIDI NRPN LSB 036 (0=normal muted, 1=unmuted, 2=solo muted, 3=solo, 4-127=solo).

For an explanation of how to use RPNs and NRPNs with the ZR-76, see "Using RPNs and NRPNs to Edit Parameters" at the end of $Chapter\ 4$.

Universal Non-Real-Time SysEx General MIDI On/Off

The ZR-76 recognizes the Universal Non-Real-Time SysEx General MIDI On/Off messages.

When the ZR-76 receives a SysEx General MIDI On message, it responds as if the ZR's own "ENTER GM mode?" command has been run: the General MIDI set-up is selected, and certain System parameters are reset (see "Using the ZR-76 with General MIDI Standard MIDI Files" in *Chapter 3* for details).

The Universal Non-Real-Time SysEx General MIDI On message is comprised of the Universal Non-Real-Time header, the current SysEx Device ID number of the ZR-76, sub-ID #1and sub-ID #2 messages, and an End of SysEx message.

Turning General MIDI On Via SysEx

Transmit	Description	Notes
Fo, 7E	Universal Non-Real-Time SysEx header	
<device id=""></device>	SysEx Device ID	o-127, determined by the setting of the SysEx Device ID System parameter (see <i>Chapter 3</i>)
09	sub-ID#1=General MIDI message	
01	sub-ID#2=General MIDI On	
F ₇	End of SysEx	

When the ZR-76 receives a Universal Non-Real-Time SysEx General MIDI Off message, it concludes General MIDI operation by selecting the default sequence and track 1. System parameters altered at the start of General MIDI operation are not reset (for a list of these parameters, see "Using General MIDI," *Chapter 3*).

The Universal Non-Real-Time SysEx General MIDI Off message is comprised of the Universal Non-Real-Time header, the SysEx Device ID number of the ZR-76, sub-ID #1 and sub-ID #2 messages, and an End of SysEx message.

Turning General MIDI Off Via SysEx

Transmit	Description	Notes
Fo, 7E	Universal Non-Real-Time SysEx header	
<device id=""></device>	SysEx Device ID	o-127, determined by the setting of the SysEx Device ID System parameter (see <i>Chapter 3</i>)
09	sub-ID#1=General MIDI message	
02	sub-ID#2=General MIDI Off	
F ₇	End of SysEx	

Pitch Tables and the MIDI Tuning Standard Format

Pitch tables created using an external computer can be downloaded into the ZR-76's RAM pitch table using the MIDI Tuning Standard format. The ZR-76 can accommodate one user-defined RAM pitch table in addition to the many alternate pitch tables stored in ROM. The ZR-76's pitch tables can be accessed by any of its 16 tracks through the setting of the track's PitchTbl parameter, or via NRPN LSB 021 values sent on the track's MIDI channel. You can also select a system-wide special pitch table by selecting the desired table with the PitchTbl System parameter.

The MIDI Tuning Standard is comprised of two kinds of messages: the MIDI Tuning Dump, a SysEx bulk dump which transmits tunings for all keys, and a Single-Note Tuning Change, which alters the tuning of a specific note. The SysEx bulk dump format is supported by several tuning editors for the Apple Macintosh and Microsoft Windows 95. It is anticipated that the Single-Note Tuning Change message will be employed by third-party tuning controllers to achieve Middle-Eastern music scales.

The ZR-76's response to the Single-Note Tuning Change message has been extended to allow users to apply a single tuning change to the ZR's entire pitch range. If a Single-Note Tuning Change message is sent to user-tuning number 7F (127), and if the note is between Middle C and an octave above (note numbers 60 to 71 inclusive), the tuning change will be applied to all notes in the current RAM pitch table. In all other cases, the note-change message only changes the tuning for the note specified. If a Single-Note Tuning Change message is received during playback of a note (between the key-down and key-up messages), the tuning change takes effect on the next note.

It is suggested that third-party tuning controllers should send a zero-pitch-detune message for each of the twelve notes supported by the Single-Note Tuning Change message and also select the RAM tuning for the receiving channel. The zero-pitch messages need only be sent once before sending their note-change messages.

For more information on the MIDI Tuning Standard, contact:

MIDI Manufacturer's Association c/o Tom White, President P.O. Box 3173 La Habra, CA 90632-3173 Phone/FAX: (310) 947-4569

email: mma@earthlink.net

Just Intonation Network 535 Stevenson Street San Francisco, CA 94103 Phone: (415) 824-5325 FAX: (415) 864-8726

WWW: http://www.dnai.com/~jinetwk

List of ROM System Pitch Tables

The intervals (or relationships) between each note in a scale is called a pitch table. The default pitch table is the western 12-tone equal-tempered pitch table. The ZR-76 offers a large assortment of traditional, modern, ethnic, and exotic pitch tables for use as the System pitch table. These pitch tables are:

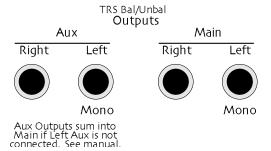
Pitch Table	Description	
EqualTemper	r The Western 12-tone equal-temperament tuning is used for the default pitch table.	
Pythagrn-C	Early tuning derived by calculating 12 perfect fifths and adjusting the octaves downward as necessary. Leaves all fifths except the one between G# and D# very pure. The entire mathematical anomaly encountered by tuning up 12 perfect fifths (called the Pythagorean comma) is accounted for in the interval between G# and D#.	
Just Int-C	Designed so that the major intervals in any scale are very pure, especially the third and fifth.	
Meantone-C	One of the earliest attempts to derive a tuning which would accommodate music played in a variety of keys. The major third interval is very pure.	
Wrkmeistr-C	Derived by Andreas Werkmeister, a contemporary of Bach, this is a further attempt to create a temperament which would accommodate music played in any key.	
Vallotti-C	A variation of Pythagorean tuning in which the first 6 fifths in the circle of fifths are flat by 1/6 of the Pythagorean Comma. This is probably close to the tuning used by Bach for his Well-Tempered Clavier.	
Grk-Diatonc	The basic building block of ancient Greek music (in which most modern Western music has its roots) was the tetra chord - four notes and three intervals spanning a perfect fourth. The placement of the two inner notes of the tetra chord determined its genus — diatonic, chromatic or enharmonic. This pitch table is derived from two diatonic tetra chords, combined to form a seven-note scale similar to the modern diatonic scale. It is to be played only on the white keys. Tone center is E.	
Grk-Chromat	This pitch table is derived from two chromatic tetra chords (the intervals are, roughly, quarter-tone, half-step, major third), combined to form a seven-note scale. It is meant to be played on the white keys. Tone center is E.	
Grk-Enharm	This pitch table is derived from two enharmonic tetra chords (the intervals are, more or less, two quarter-tones followed by a major third), combined to form a seven-note scale. It is meant to be played on the white keys. Tone center is E.	
Turkish-A	This is a typical Turkish octave-based scale using only one quarter tone. The second note in the scale is tuned 40 cents flat from the equal-tempered equivalent. In this tuning B is 40 cents flatter from B natural. The scale rises from A.	
Arabic-1	The intervals in this table form the basis for much Middle Eastern music. Here the octave is divided into 17 intervals, corresponding to the fret intervals of some stringed instruments used in this area. The scale rises from the base pitch of C4 in a series of three repeating intervals (in cents) of 90, 90, 24 and so on. From C4 to F5 represents an octave.	

Arabic-2	Similar to Arabic 1, except that here the octave is divided into 24 intervals. This makes one pitch octave cover two keyboard octaves, meaning that the fingering will be the same in any octave. This scale rises from the base pitch of C4 in a series of four	
	repeating intervals (in cents) of 24, 66, 24, 90 and so on.	
Arabic-3	This is a 12-tone scale using quarter tones (notes tuned sharp or flat by 50 cents from their equal-tempered equivalents) on the $C\#$, E , $G\#$ and B keys.	
Arabic-4	Another octave-based scale with an Arabic flavor. In this case the "quarter tones" are not perfectly equal, imparting a distir character to the notes.	
Java-Pelog1	One of the two main scales of the gamelan orchestras of Java and Bali is the seven-tone scale called Pelog. The notes C, D, F, G, and A (which are reproduced on the black keys) are considered primary, with E and B used for grace notes. The octaves are stretched (tuned a little sharp) due to the harmonic content of the instruments in the gamelan. (There are many variations of these tunings, almost as many as there are gamelan ensembles. These tunings are to be considered typical, not definitive.)	
Java-Pelog2	Another version of the seven-tone Pelog scale used in gamelan music. The notes C, D, F, G, and A (which are reproduced on the black keys) are considered primary, with E and B used for grace notes. The octaves are stretched (tuned a little sharp) due to th harmonic content of the instruments in the gamelan.	
Java-Pelog3	A third version of the seven-tone Pelog scale used in gamelan music. The notes C, D, F, G, and A (which are reproduced on the black keys) are considered primary, with E and B used for grace notes.	
Java-SIndro	A 15-tone equal tempered tuning from Java. Playing every third note (as in a diminished chord) yields a typical 5-tone scale of the gamelan. Other notes can be used as passing tones.	
Java-Combi	This is actually two pitch tables in one. The white keys play the seven-tone Pelog scale, same as the table JAVA-PELOG1. The black keys play a five-tone scale called Slendro, which is close to a five-tone equi-tempered scale. Both tunings have their octaves stretched (tuned a little sharp) due to the harmonic content of the instruments in the gamelan.	
Indian-Raga	Indian scale used to play ragas, based on 22 pure intervals called Srutis. This pitch table uses two keyboard octaves to play one octave in pitch. The 22 Srutis are mapped to keys in this two-octave range omitting the A#s, which play the same pitch as the adjacent A.	
Tibetan	This tuning is based on a pentatonic scale from Tibet. Notice that playing the black keys yield a scale similar to the 5-tone Slendro tuning from Indonesia.	
Chinese-1	This is a seven-tone scale used widely in China. It is meant to be played on the white keys.	
Chinese-2	A seven-tone scale based on an ancient Chinese lute tuning. It is meant to be played on the white keys.	
Thailand	This is a seven-tone equi-tempered scale from Thailand. It is meant to be played on the white keys.	
24-Tone-Equ	Centered on C4, this scale has an even quarter tone (50 cents) between each keyboard note, and each pitch octave covers 2 keyboard octaves. This tuning has been used by many contemporary composers and can be used in some Middle Eastern music.	
19-Tone-Equ	Centered on C4, this scale divides the octave into 19 equal steps. From C4 to G5 forms an octave. This scale yields very pure thirds and sixths, but not fifths. Like the 24-tone scale, this has been used by some modern composers.	
31-Tone-Equ	Centered on C4, this scale divides the octave into 31 equal steps. From C4 to G6 forms an octave. Similar to 19-tone in the purit of its intervals.	
53-Tone-Equ	This scale divides the octave into 53 equal steps. From C2 to F6 forms an octave. It yields very pure thirds, fourths and fifths.	
Harmonic	This is a mathematically generated scale based on the relationships of the partials in the harmonics of the fifth octave of the linear harmonic spectrum. It is interesting mostly from a theoretical standpoint.	
CarlosAlpha	Derived mathematically by Wendy Carlos in the search for scales with the maximum purity of primary intervals, This is based of the division of the octave into 15.385 equal steps (78 cents per key). One pitch "octave" covers 16 keys, though because the Carlos scales are asymmetric (not based on whole number divisions of the octave) they do not yield pure octaves.	
Carlos-Beta	Wendy Carlos' Beta scale is based on the division of the octave into 18.809 equal steps 63.8 cents per key. One pitch "octave" covers 19 keys; though, being asymmetric, it yields no pure octaves.	
CarlosGamma	Wendy Carlos' Gamma scale is based on the division of the octave into 34.188 equal steps (35.1 cents per key). This scale has essentially perfect major thirds, fourths and fifths. One pitch "octave" covers 35 keys, though, again, being asymmetric it yields no pure octaves.	
Partch-43	Harry Partch was a pioneer of micro-tonality in the early 20th century. He developed this 43-tone-per-octave scale of pure intervals, and even designed an entire orchestra of instruments using this scale. The tonal center is found on key D2 (the low D on the 76-note keyboard). This pitch table has been transposed up an octave to bring the notes into a more usable range.	
Reverse	This pitch table simply reverses the pitch-tracking of the keyboard, putting the highest notes at the bottom of the keyboard and the highest notes at the top. Hours of fun.	
Вадріре	This is the tuning of a traditional Scottish bagpipe.	
ShonaMbira1	One tuning of the African Mbira, similar to the Kalimba or thumb-piano. Each Mbira player uses his own "tuning" which is his signature.	
ShonaMbira2	Another Mbira tuning.	
SuperJust	This is a Just Intonation scale created by Wendy Carlos.	
88CET	88CET is a scale with a constant interval of 88 cents. It features three different thirds and close approximations to many just intervals. This keyboard mapping omits the $G\#/Ab$ key from the system.	
Pierce-Bohl	An octave-repeating stretched scale invented by John Pierce which is derived from a pure twelfth divided into thirteen steps.	
WS1	The WS scales are for single samples which span the entire keyboard. WS1 maintains 12 tones per octave for two octaves	
\\/S>	centered on middle C, then continues to high and low ends of the keyboard with 1/4 of a semitone or 48 tones per octave.	
WS2	WS2 maintains 12 tones per octave for three octaves centered on middle C from G to G.	
WS ₃	WS2 maintains 12 tones per octave for four octaves centered on middle C. A stretch tuning, in which the middle C is at unity, C1 is detuned flat 40 cents and C8 is detuned sharp 40 cents. The stretch is a	
Stretch		
Stretch RandomDetun	linear ramp between these two offsets. Each note has been "tweaked" by + or - up to 10 cents, giving chords a chorused effect which is different for each note.	

Using the ZR-76 Outputs

A Note About the Main and Aux Output Jacks

Use standard balanced (TRS) stereo cables or unbalanced (TS) mono cables for these connections.



As the labels on the Aux Out jacks and Main Out jacks indicate, the ZR employs automatic switching on each stereo pair of outputs. That is:

- Main Outputs Right and Left are normally stereo outputs. However, if nothing is plugged into the Right Output, the stereo signal will be summed to mono and sent to the Left Output.
- Similarly, the Aux Outputs Right and Left are normally stereo outputs. However, if nothing is plugged into the Right Aux Output, the stereo signal will be summed to mono and sent to the Left Aux Output.

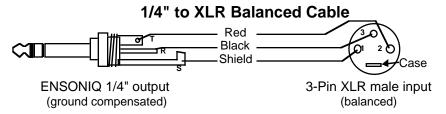
Note: If there is nothing connected to the Left Aux Out jack, any signal sent to the Aux Outputs will be summed into the Main Outputs.

Ground Compensated Outputs

The ZR-76 has "ground compensated" outputs, which offer the advantages of balanced outputs (minimized hum and interference), plus the advantage of a transformer isolated output (eliminates ground loop problems). The output connector "grounds" are not hooked directly to the ZR-76 ground, thus eliminating the possibility of a ground loop. This ground compensating scheme works on both balanced and unbalanced equipment with standard cables.

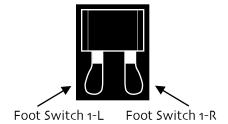
Using XLR Outs with the ZR-76

The ZR-76 ground compensating outputs make things very easy. Use of a standard 1/4" to XLR cable will work fine with no ground loops.



A Note about Stereo Foot Switches

The recommended stereo foot switch for use with the ZR-76 is the ENSONIQ SW-10 Dual Foot Switch. The SW-10 is a dual (piano-type) foot switch with two separate pedals.



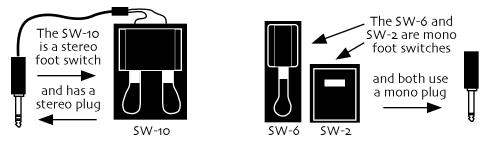
When the SW-10 is connected, the pedals can be assigned to a number of different functions, allowing a total of four independent foot switch controllers (when two optional SW-10 Dual Foot Switches are connected). If you are considering using a foot switch, we highly recommend the ENSONIQ SW-10 Dual Foot Switch. Why not get two?

Note: If you are using a foot switch manufactured by another company, there is a possibility that the wires inside the foot switch may be reversed. This could make the ZR recognize Foot Switch 1-R as left, and Foot Switch 1-L as right.

A Note about Mono Foot Switches

The ZR-76 has two stereo foot switch jacks. When any mono foot switch is plugged in, it functions like the right side of a stereo foot switch, and acts as a permanent shut-off switch for the (non-existent) left side of the foot switch.

If you are using a single foot switch (SW-2 or SW-6) in either of the Foot Switch jacks, the FtSw 1-L and/or FtSw 2-L values on the System page should *always* be set to "Unused". This will prevent note drones. Remember that the foot switch jacks are optimized for use with a stereo foot switch (SW-10), and when a single foot switch is connected, it behaves like the right foot switch.



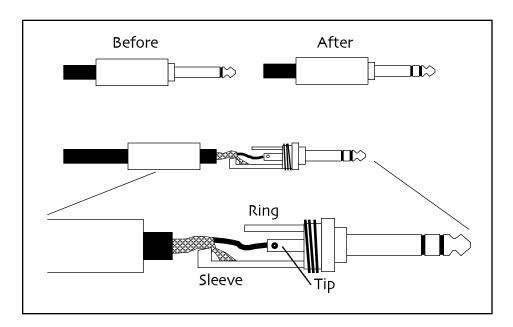
To optimize the usage of mono foot switches, please consider performing one of the two modifications explained in "HOT MODS" on the following pages.

HOT MODS!

Although mono foot switches can be used as is, their usage can be optimized if you are willing to make either of the following modifications. If you are not comfortable performing the following modifications, we recommend asking a qualified technician for assistance:

Replace the Mono Foot Switch Plug with a Stereo Plug

The advantage of this modification is that you will eliminate the "shorted" left foot switch signal (see "About Mono Foot Switches" earlier).



Tools/supplies required:

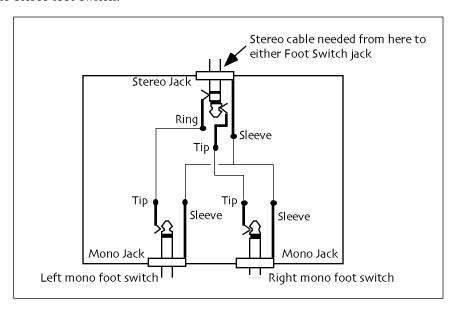
soldering iron solder wire cutters 1/4" stereo plug

- 1. Unscrew the mono plug cover, and slide it out of the way (down the cable).
- 2. Either with wire cutters or a soldering iron, remove the wires from the mono plug.
- 3. Replace the mono plug cover with the stereo plug cover on the mono foot switch cable.
- 4. Solder the "hot" wire (the insulated wire in the center of the cable) to the tip connector, and the ground (shield) wire to the sleeve on the stereo plug as shown in the diagram.
- 5. Screw the stereo plug cover onto the stereo plug to complete the modification.

HOT MODS!

Build a Splitter Box to Merge Two Mono Foot Switches into One Stereo Jack

The advantage of this modification is that it will allow you to make two mono foot switches function as one stereo foot switch.



Tools/supplies required:

soldering iron

solder

wire cutters

drill and drill bits

one plastic housing assembly (must be large enough to mount three jacks)

one stereo jack

two mono jacks

shielded wire

1/4" stereo-to-stereo cable

- 1. Drill three holes in the housing assembly and mount the stereo and mono jacks.
- 2. Solder a wire from the tip of the left mono jack to the ring of the stereo jack.
- 3. Solder a wire from the tip of the right mono jack to the tip of the stereo jack.
- 4. Solder a wire(s) connecting the sleeves of all three jacks.
- 5. Connect the mono foot switch(es) to the mono jacks.
- 6. Connect the stereo-to-stereo cable between the stereo jack and either Foot Switch jack.
- 7. You might want to mark the housing assembly to easily identify the jacks.

Tip: By doubling the above instructions, you could build a splitter box to merge four mono foot switches into two stereo jacks, for maximum ZR-76 control!

Using Headphones with the ZR-76

Headphones can be used with the ZR-76 when connected to the rear panel 1/4" stereo Phones jack to listen to the keyboard in stereo. The signals going to this jack are the same signals that appear at the main output jacks, even if they are not connected. The main outputs are mapped to the stereo headphone as follows: Main Out Left is mostly to the left; Main Out Right is mostly to the right. The outputs are not routed hard left and right to the headphone jack, to provide a "mixed stereo" signal:

Headphones



Headphone volume is controlled by the Master Volume slider. Plugging headphones into the Phones jack does not turn off the audio in the outputs.

Warning: The headphone output circuit is designed to minimize the volume differences between low and high impedance headphones. Because some headphones are more efficient than others, make sure you set the Master Volume slider accordingly—high output volume levels could damage your hearing.

Sending the Aux Signals to the Headphones

Since the headphone jack always mirrors the Main Output jacks, the easiest way to send the Aux signals to the headphones is to route the Aux signals to the Main Outputs. Here's how:

To Route the Aux Signals to the Main Outputs:

- 1. Press the System button.
- 2. Using the Parameter knob, locate the "AuxToMainOuts" parameter.
- 3. Turn the Value knob, or press the up and down arrow buttons to select "AuxToMainOuts=Always." Now whatever was routed to the Aux jacks is now being sent to the Main Outputs, and therefore, can be heard in the headphones.

Note: Remember to reset the System "AuxToMainOuts" parameter if you do not want to send the aux signals to the main outputs.

Error/Informational Messages

The following error/informational messages are organized alphabetically.

16 Track Recorder Messages

Track Necorder Message	.3
Add track parameters to track #? Ali9n MIDI channels to track numbers?	This appears when the selected sequence has had it's track #'s and MIDI channel #'s aligned (i.e., "Align MIDI channels to track numbers" has been performed, and the track contains a GM sound), but the selected track does not yet contain track parameters. This prompt appears when you: - Turn the left knob on the Track select page. - Turn the Mix knob - Turn the Pan knob - Press the Mixdown/FX Routing button Answering No or Yes will re-display the track select page. This appears when the selected sequence has not had it's tracks/channels aligned. This prompt appears when you: - Press a track button - Press Enter from the SoundFinder Send To page (which always sends to the current song) - Press Enter from the Idea Pad Send To page when Send To=Current Song - Pressing Yes will move all the data around to make track numbers and channel numbers
Can't append to an	the same, add track parameters to the selected track, and add the sequence name, the sequence insert effect, and the ability to store the Region settings to the sequence as a SysEx. The next available empty track will become the selected track; if there is no available empty track, pressing Enter will do nothing. This appears when you try to append a track to another track on which nothing has
empty track!	been recorded.
Can't change FX when playlist is active!	This appears when you try to change the Insert Effect or track routing with an active playlist.
Can't copy a rhythm track to itself!	When performing the Track Copy command on a rhythm track, if you try to select the Dest Part to be the same as the current and press Enter on that page, this message will appear.
Can't copy playlist! Select a seq first!	This appears when you press the the Song Editor copy button with an active playlist.
Can't copy when playlist is active!	This appears when you press the 16 Track Recorder Copy button with an active playlist.
Can [,] t edit drum kit on rhythm track!	This appears when you try to edit a drum key on the rhythm drum kit on track 10.
Can't edit multiple time si9natures!	If a sequence has more than one time signature, attempting to edit the time signature value on the sequence select page will show this message. The displayed time signature value is read only.
Can't erase when Playlist is active!	This appears when you press the 16 Track Recorder Erase button with an active playlist.
Can't locate when Playlist is active!	This appears when the sequencer is not playing, and you press the 16 Track Recorder Stop button with an active playlist.
Can't loop when playlist is active!	This appears when you press the Loop button with an active playlist.
Can't mix when Playlist is active!	This appears when you move the Mix knob with an active playlist.
Can't mute when playlist is active!	This appears when you press the Mute button with an active playlist.
Can't pan when playlist is active!	This appears when you move the Pan knob with an active playlist.

Can [.] t quantize track rhythm playback!	When a Rhythm is on track 10, the 16 Track Recorder Quantize function will only quantize any note data that exists on the track; it will not quantize the rhythm playback, and will not quantize events that control rhythm playback (start/stop/fill/var). If there is a rhythm on track 10, but there are no note events on track 10, pressing the 16 Track Recorder Quantize button will display this momentary error message.
Can't quantize when playlist is active!	This appears when you press the 16 Track Recorder Quantize button with an active playlist.
Can't record when Playlist is active!	This appears when you press the 16 Track Recorder Record button with an active playlist.
Can't rename an empty sequence!	When you try to rename a nameless, empty sequence that has no sounds assigned to any tracks, this error message is displayed.
Can't smooth ster! Ster #4 = Bank1: D	If there is insufficient RAM to play all playlist steps seamlessly, and you still go ahead and build the playlist even though it cannot be smoothed, the ZR will tell you which steps cannot be smoothed by timed messages similar to this (step numbers and bank locations will vary).
Can't solo when playlist is active!	This appears when you press the Solo button with an active playlist.
No playlist defined! Hold to define one.	This message is displayed when the Playlist button is pressed and released and no Playlist has been defined.
No seas to select!	This appears when there are no sequences in the currently selected song, and you press the Playlist button.
Not enou9h memory to finish ali9nment!	This error message is displayed if the aligning of tracks has begun, but there's insufficient memory to complete the process. Tip: We recommend that when an SMF that contains either 1) multiple MIDI channels per track, 2) multiple tracks with the same MIDI channel, or 3) more than 16 tracks is loaded, sequencer memory should be empty to give the aligning process the highest odds for success.
Press STOP first!	This appears in several situations: • when you press the Bank button and the playlist is selected, and playing. • when you attempt to change the time signature of a sequence while it's playing • while the sequencer is running, if you press: 16 Track Recorder Edit 16 Track Recorder Copy 16 Track Recorder Ease 16 Track Recorder Quantize Song Editor Copy Song Editor Frase Song Editor Frase Song Editor Select Song Song Editor Nisc. Song Editor New Song Song Editor Song Playlist • Any sequence button except for the selected one
RAM low! Playlist not smooth. Proceed?	This prompt is displayed when there is insufficient RAM to play all playlist steps seamlessly.
Recordin9 stopped! Out of son9 memory.	This appears when you run out of sequencer memory while recording.
Replace contents of rhythm & target trk?	After aligning tracks on a sequence as the result of doing a Send to Track from SoundFinder (or the Idea Pad), if there is something recorded on both the target track, and track 10 (a rhythm, or a normal track), this is displayed.
Replace contents of rhythm track?	After aligning tracks on a sequence as the result of doing a Send to Track from the Drum Machine, if track 10 contains data, this is displayed.
Replace rhythm from Drum Machine only!	This message is displayed when you attempt to change the rhythm on the rhythm track by tunring the Value knob.
Replace sound on target track?	After aligning tracks on a sequence as the result of doing a Send to Track from SoundFinder (or the Idea Pad), if the target track contains data, this is displayed.
Rhythm data is not available!	When the Drum Machine cannot find the rhythm that should be in the selected rhythm location, this message will be displayed.

Select new rhythm & send to track!	Rhythms cannot be selected on track 10. This display informs you that you have to use the Drum Machine Send To function to change the rhythm on track 10.
Seq tempo/meter will be used! Proceed?	Pressing Send To Track in the Idea Pad will display this prompt after pressing a track button or after pressing Yes, if the idea was recorded with a rhythm, and the target sequence contains data on at least one track (i.e., has a tempo & time signature already), but both the target track and track 10 are empty.
Set Method to Normal for quantize params!	When the 16 Track Recorder Quantize command has Method=Deltas, and all of the subsequent parameters are no longer displayed, turning the left knob clockwise will display this message as an informational tip.
Son9 playlist does not have a re9ion!	This appears when you press the Region From or To with an active playlist.
Sound not available!	When a sequence or drum pattern contains a RAM or FLASH resident sound on a track, and you erase all RAM or FLASH sounds in the librarian, pressing the track button will display this message.
Tempo read-only when playlist is active!	When the Song Playlist is selected, and the Song Editor Tempo page is displayed, the Current Tempo parameter is read-only—attempting to edit the value will display this momentary error message.
Update track params with MIDI values?	When any MIDI input has been received by the ZR-76 in sequencer mode (multi mode), on any track (the track could be defined with track params, defined without track params, or *UNDEFINED) in a sequence that has had its tracks/channels aligned, pressing any of the following controls will display this prompt: - pressing a track button - pressing the FX/Mixdown Routing button - turning the Mix knob - turning the Pan knob - pressing the Pan knob - pressing the Mute button - pressing the Solo button - pressing the Solo button - pressing Yes will copy the last received values for all track parameters into the SysEx's that contain the track parameters in the current sequence; any tracks that were either defined without track params, or *UNDEFINED, will become defined with track parameters. Pressing No will leave the track unchanged, and will redisplay the sequence select page.

Disk/Global/Storage Messages

Bad location	This is displayed when trying to send a sound into a ROM location.
Bad MIDI file data! File can't be loaded	This appears when a corrupted .MID, .SMF, .MFF file is loaded. The ZR-76 will abort the load and show this error message.
Can only load first 100 files from disk!	The ZR floppy disk system has a file limit of 100 files. This means that you can only view the first 100 files on a disk. This momentary warning message is displayed if the disk you've inserted contains more than 100 files.
Can't close file!	This appears if a specific file on the floppy disk is corrupted and can't be closed.
Can t erase file!	This appears if try to erase a file that exists in ROM memory.
Can't format floppy!	This appears when the floppy disk is corrupted and cannot be formatted.
Can t open disk!	Interrupted disk writes (by ejecting the disk during the write cycle) shows this message.
Can t open (filename)	This appears if a specific file on the floppy disk is corrupted and can't be opened.
Can t rename file!	This appears if try to rename a file that exists in ROM memory.
Can t save more than 100 files to disk!	The ZR floppy disk system has a file limit of 100 files. This means that you can only save 100 files to disk. This error message is displayed if you try to save more than 100 files to a disk.
Couldn [,] t find pattern to save!	This appears if you try to save a pattern that doesn't exist or that's been erased from memory.
Couldn [,] t find preset to save!	This appears if you try to save a preset that doesn't exist or that's been erased from memory.

Couldn [,] t find rhythm to save!	This appears if you try to save a rhythm that doesn't exist or that's been erased from memory.
Couldn [,] t find sound to save!	This appears if you try to save a sound that doesn't exist or that's been erased from memory.
Couldn [,] t find tar9et preset!	This appears if you try to load a preset into a location that doesn't exist, or that's corrupted.
Couldn [.] t find tar9et rhythm!	This appears if you try to load a rhythm from floppy into a location that doesn't exist, or that's corrupted.
Couldn [*] t find tar9et sound!	This appears if you try to load a sound into a location that doesn't exist, or that's corrupted.
Disk not readable!	Ejecting the disk while loading directories displays this message.
Disk Utilities: No disk in drive!	This appears when you press the Disk Utility button when there is no disk in the drive.
Disk write-protected	If you try to process any disk command and the disk's write-protect window is open, this will be displayed.
Disk is full!	This appears when there is no more room to store information on the floppy disk.
Disk read failed!	This appears if there is corrupted data on the floppy disk during a disk load command.
Disk write failed!	If either the floppy disk or the file is corrupted, this will be displayed when trying to save the data to a floppy disk.
Disk's been changed!	This appears whenever you try to load data from a disk, and there's a different floppy disk in the drive.
Dump: (dump type) Sending	Message to inform that the ZR-76 is transmitting MIDI SysEx.
Failed! May be hosed	Message to inform you that the disk file may be corrupted.
Fatal memory error!	This appears when the ZR's memory bank becomes corrupted. Restarting the ZR should remedy the problem.
File is bi99er than free memory!	This appears when there is not enough allocated memory in the ZR to load a file from the floppy disk.
File is too big	This appears when you've exceeded the available memory for your file.
File with same name exists! Overwrite?	This appears when a file of the same name exists on a disk and a disk save is invoked.
Insufficient memory!	When there is not enough memory to complete an operation, this is displayed.
Load from disk? No disk in drive!	This appears when you press the Disk Load button when there is no disk in the drive.
Load from disk? No readable files!	After pressing Disk Load, if no legal files are found on a disk, this error message will be displayed on the bottom line of the Load page.
Not a valid preset file!	This appears when you try to load in preset data that is corrupted, or data that was saved improperly.
Not a valid program	This appears when you try to load in sound data that is corrupted, or data that was saved improperly.
Not a valid rhythm file!	This appears when you try to load in rhythm data that is corrupted, or data that was saved improperly.

Not enou9h FLASH memory!	This appears when the information you are trying to save exceeds the available allocated memory.
Not enou9h FLASH rhythm memory!	This appears when the information you are trying to save exceeds the available allocated memory.
Not enou9h memory for this RAM setup!	This appears when the information you are trying to save exceeds the available allocated memory.
Pattern is too bi9	This appears when you've exceeded the available memory for your pattern.
RCU: (message type) Receiving (msg type)	Message to inform that the ZR-76 is receiving MIDI SysEx.
RCU: (message type) Successful!	Message to inform that MIDI SysEx reception is complete.
Save to disk? No disk in drive!	This appears when you press the Disk Save button when there is no disk in the drive.
Sorry! No memory for sound sent from MIDI	Message to inform that the ZR-76 does not have sufficient memory to store the single sound SysEx message that was sent to it.
Turn Layer off to save to disk!	This appears if you try to save the current sound to disk and layer is on. Saving a single sound to disk will only save the primary sound in SoundFinder mode.
Turn Split&Layer off to save to disk!	This appears if you try to save the current sound to disk and split and layer are on. Saving a single sound to disk will only save the primary sound in SoundFinder mode.
Turn Split off to save to disk!	This appears if you try to save the current sound to disk and split is on. Saving a single sound to disk will only save the primary sound in SoundFinder mode.

SoundFinder Message

Too few free layers to save as a sound!

This is displayed when trying to save a split or layered sound to the internal FLASH RAM when there is not enough memory available.

To remedy the problem, press the Librarian button until the display shows "Erase memory item?" Press the Yes button. The ZR will then display "Sound: XXX". Use the up/down arrows or the Value knob to select which FLASH sounds you want to erase from memory, thereby freeing memory for your sound. Press the Yes button to begin the process of creating more space for your custom, split or layered sounds.

Global Error Message

Sorry! An Unexpected Event xxx occured.	Message to indicate that the ZR-76 has experienced a fatal error. This will cause the ZR-76 to soft restart after displaying the message for about three seconds. The bottom line shows the event code number (000 to 256).
Unknown error Error code = xxx	This also indicates that the ZR-76 has experienced a fatal error. This will cause the ZR-76 to soft restart after displaying the message for about three seconds. The bottom line shows the error code number (000 to 256).

Glossary

Active	The state of a drum kit zone when it's audible. Also the audible state of the phrase a zone plays in a variation or fill. The opposite of "Muted."
Add Mode	A mode of recording in the 16 Track Recorder where recording new material on a previously recorded track superimposes the new music on top of the old without erasing it. See "Recording Modes."
Alt. FX Bus	The "second-choice" effect bus routing for sounds routed to the insert effect bus. Also an alternate term for the effect bus routing parameter of any sound not routed to the insert bus. In the ZR Unisyn editor, the Alt. FX Bus is the means by which a sound's effect routing is programmed when it's not being routed to the insert or dry effect busses.
Ambience	The sound of the physical space—real or simulated—in which a sound occurs.
Amplify	To increase the level, or loudness, of a signal.
Amplitude	The level, or loudness, of a signal.
AO-C8	The MIDI pitch range of an 88-note keyboard. The lowest note is an A, designated as "Ao," and the highest note, a C, is referred to as "C8." The numbers increment at each C—Ao is followed by A#o, Bo and C1, for example. Middle C is "C4." Most MIDI manufacturers use this scheme; however, a few manufacturers refer to Middle C as "C3."
Append	To attach one track to the end of another. One of the 16 Track Recorder Copy functions.
Attenuate	To decrease the level, or loudness, of a signal.
Balanced-Line Input	Three-conductor balanced lines are used to interconnect various pieces of equipment, and are often used in professional studios. These balanced-line inputs tend to reject hum and/or radio frequency interference. The ZR-76 has balanced-line outputs, for connecting with professional balanced-line input studio equipment.
Bandwidth	The overall frequency spectrum of a sound or effect, measured in Hertz (Hz) and kiloHertz (kHz).
Bank	A collection of sounds, presets or rhythms. The ZR-76 contains ROM sound banks and rhythm banks, FLASH sound, preset and rhythm banks, and can contain RAM sound and rhythm banks. Each sound bank in the ZR-76 can hold up to 361 sound layers; each rhythm bank is 80, 000 bytes in size; the FLASH preset bank can hold 32 presets. Sound banks may be selected via MIDI through the use of MIDI Bank Select messages.
Bank Select	A type of MIDI message that can select sound banks in MIDI devices that store sounds in bank groupings and support Bank Select messages. The ZR-76 responds to Bank Select messages, and transmit them when a MIDI-OUT sound is selected.
Base MIDI Channel	The MIDI channel on which SoundFinder receives MIDI data. Also the channel upon which SoundFinder transmits MIDI when a non-MIDI-OUT sound is selected.
C 4	The MIDI designation for Middle C on a MIDI keyboard or controller. Note: some MIDI manufacturers refer to Middle C as "C3."
Chorusing	An audio effect that results from the mixing together of a source signal with slightly delayed copies of itself where the delay time of the copies is fluctuating in a regular, rhythmic fashion. The timing variations create phasing anomalies that cause the source signal to swirl, and sound wider and/or bigger.
Click	A term for the metronome in the ZR's 16 Track Recorder; not necessarily a description of the sound the metronome uses.
Clock	1/384th of a quarter note in the ZR-76; the ZR's finest metric value. Locations within sequences are measured in bars, beats and clocks.
Clock Source	A built-in reference pulse generated by the ZR-76 for the synchronizing of LFOs, delays and noise modulators used in sounds and effects. The rate of the pulse is derived from the 16 Track Recorder's tempo, or the Drum Machine's tempo when in SoundFinder. The clock source can also be synchronized to received MIDI clocks.
Compression	A sound conditioning process that reduces a source signal's dynamic range. Loud signals get softer and softer signals get louder.
Compression Ratio	The amount by which a signal is compressed, expressed as a ratio. For example, a 4 to 1 compression ratio will result in an increase of 1dB in output level for every 4dB increase in input level. At high ratios (such as 20:1 and above), the compressor acts as a limiter.
Computer	A personal computer typically using either the Mac OS or an IBM-compatible operating system (such as Windows 3.1 or Windows 95). To be used in conjunction with a ZR-76, a personal computer must be able to mount DOS-formatted 3.5" floppy disks.

Countoff	Beats heard before recording begins that allow a musician to become accustomed with the tempo of the music about to be recorded.
CTRL	Synonym for "system controller."
Cutoff Frequency	The filter setting that determines which frequencies a filter will leave un-attenuated. In a low-pass filter, the cutoff frequency setting determines the highest frequency that will be allowed to pass through the filter. In a high-pass filter, it determines the lowest frequency.
Cycle	A sound wave's single journey from exerting a greater amount of air pressure to a lesser one and back to its starting point. The number of cycles per second determines the pitch—or frequency—of the sound wave. The number of cycles per second is expressed in Hertz (Hz) and kiloHertz (kHz).
Damping	A reverb parameter that determines how quickly the high-frequency content of a reverb will be reduced as it decays to silence.
DDL	Abbreviation for "digital delay line," an effect that creates a digital copy, or copies, of a source signal and plays it (or them) back later than the original signal. These delays can be used to create a myriad of audio effects.
Delta Quantize	A new ENSONIQ form of rhythm auto-correction, delta quantizing analyzes the spaces, or deltas, between recorded notes to ascertain the musician's intent and corrects timing mistakes without the artifacts often introduced when using standard quantization methods. Allows the rhythmic auto-correction of tracks recorded without a metronome reference.
Diffusion	A reverb parameter used to smear a reverb's transients in order to smooth the reverb's sound. Low diffusion values will cause transients to appear as a series of discrete echoes, while higher values tend to increase the blurring effect for a smoother sound.
Drum Key	Any of the keys on the keyboard when a ZR-76 drum or percussion kit sound is selected. Each key in a ZR drum or percussion kit sound plays a standard ZR sound and has its own set of parameters.
Drum Kit Sound	A special type of sound program that assigns a standard sound to each key on the keyboard. Drum (and percussion) kit sounds can access up to 64 standard sounds at once.
Drum Map	A standardized selection of sounds for the drum keys in a drum or percussion kit sound.
Dry	The effect description for a sound not routed to any of the ZR's effects.
Early Reflections (ER)	Early reflections are delayed signals that aurally suggest the size of ambient spaces. In the real world, sound bounces off surfaces it encounters—walls, ceiling and floor. Quick early reflections suggest small spaces, with these surfaces close by. Longer early reflections imply to the ear that the surfaces are farther away, and that the ambient space is therefore larger.
Edit Buffer	An area of the ZR's memory that temporarily stores changes to a sound, preset, rhythm or track. When editing sounds, presets and rhythms, the edit buffer hold changes you've made until a new sound, preset or rhythm is selected, or until you save your work. After each new recording and track command in the 16 Track Recorder, the edit buffer temporarily retains the track's previous state, allowing you to undo your most recent track procedure.
Effect	Signal processing typically applied to sounds as a final touch. Many effects simulate ambiences of a realistic or fantastic nature. Effects include reverbs, delays, choruses, flangers, phasers, distortion and so on. Every ZR-76 song offers a global chorus and a global reverb setup. Each sequence offers an insert effect. Many of the ZR-76 sounds also contain insert effects. Any sound in SoundFinder or on a track in the 16 Track Recorder can be routed to any of the ZR effects.
Effect Bus	A pathway leading to each of the effect possibilities: insert, global chorus, global reverb or dry. A sound assigned to an effect bus is processed by the effect for which the pathway is named. Synonym for "FX Bus."
Envelopes	Devices that allow the shaping of sounds and effects.
EPROM	A memory chip found inside the ZR-76 containing the computer programming code for the ZR's operating system. The ZR operating system requires a pair of EPROMS.
Equalization (EQ)	The process of altering the frequency content of a sound. Everything we hear is comprised of a number of sound waves occurring at the same time, at different pitches, or "frequencies." Equalization allows you to change the volume balance of the frequencies within a sound.
Feedback	A signal routing in which the output of an effect is mixed back into the input. Feedback of a delay line is also called regeneration.
Fill	A non-repeating drum or percussion phrase typically used to set up transitions in a musical arrangement.

Filter	A device that attenuates selected frequencies within a sound or effect. For example, a high-pass filter passes all signals higher than a selected frequency, attenuating all those frequencies below it. A low-pass filter passes all signals below a selected frequency, attenuating all those frequencies above it.
Flanger	A processor that simulates the effect of two synchronized tape machines playing back the same signal, with the speed of one machine being slowed slightly by the gentle pressing on the outer shell—or flange—of one of its tape reels. This small amount of delay causes a phasing cancellation that momentarily filters out elements of the sound being processed. Changing the delay time causes the "flange" effect. In the ZR-76, flanging is achieved using interpolated digital delay lines.
FLASH	A long-lasting form of computer memory utilized in the ZR-76.
Frequency	The number of times per second that a sound wave repeats its excursion from maximum compression of air pressure to minimum compression and back to its starting point—each excursion is called a cycle. The number of cycles per second is expressed in Hertz (Hz) and kiloHertz (kHz). Lower frequencies produce lower pitches and higher frequencies produce higher pitches. Sounds are comprised of a number of sound waves of varying frequencies occurring at roughly the same time. "Frequency" may be used a shorthand for one of those sound waves, or "frequencies" for a group of them.
FX	Abbreviation for "effect." See "Effect."
FX Bus	Synonym for "Effect Bus."
Gate (Noise Gate)	A device that attenuates a source signal falling below a pre-determined volume threshold. A useful tool in eliminating noise and controlling signals that use an effect. Ambiences such as reverb may be gated to produce an extreme and artificial-sounding decay.
General MIDI	A set of standards providing a uniform palette of sounds, drum kits and effects to be used in the creation of MIDI recordings.
Global	"Global" has two meanings in the ZR-76: 1. parameters that affect the operations on the entire ZR-76; these are accessed by pressing the System button in the Disk/Global section of the ZR's front panel. 2. a description of the chorus and reverb effects universally available in every ZR song.
Hysteresis	The property of a system whose behavior is determined by the level, direction and history of a controlling signal. Used in the ZR-76 to provide greater control over gating, triggering and compression.
Idea	A piece of music played on the ZR's keyboard, and/or produced by the ZR's Drum Machine, that's been captured by the Idea Pad.
Layer	"Layer" has two usages in the ZR-76: 1. a set of digital sound recordings—or samples—that span the entire MIDI pitch range, and their associated parameters. Up to 16 of these can be combined to create a standard ZR-76 sound (split and/or layer single sounds can have more than 16). 2. a function available in SoundFinder that allows you to stack two sounds on top of each other so that when a key is pressed, both sounds are heard.
LED	LEDs (Light Emitting Diodes) are small solid-state lamps found embedded in a number of the ZR's buttons. Under normal conditions, they have a virtually unlimited lifetime.
LFO	An oscillator that generates sound waves at a frequency below the audio spectrum. These low-frequency waves can modulate audible sound waves to produce vibrato, tremolo, and other effects. They can also be employed to produce rhythmic changes in various effects.
LFO Depth	The amount of LFO modulation.
LFO Rate	The speed at which an LFO wave completes a single cycle.
Limiter	A device that will prevent a source signal from exceeding a pre-set amplitude threshold. A limiter can be thought of as a compressor with an infinite compression ratio.
Loop Length	The length, in bars, of a Drum Machine variation; when the variation plays to its end, it starts playing again from its beginning without stopping.
LSB	Many MIDI controllers use a pair of MIDI messages. The first—the MSB—for "Most Significant Byte"—chooses among 128 sets of MIDI values, each of which contains 128 values of its own. The LSB—for "Least Significant Byte"—selects one of the 128 values contained in each MSB set. The ZR-76 MIDI Implementation Chart in this chapter provides information on the proper use of MSB/LSB values with various MIDI controllers and the ZR-76.
Merge	To combine the data on one track in the 16 Track Recorder with the data of another. One of the 16 Track Recorder Copy functions.
MIDI	Musical Instrument Digital Interface. A communication protocol for musical instruments. MIDI has expanded the ability of the electronic musician to interconnect products from different manufacturers through the use of this single communication protocol. See "What Is MIDI?" elsewhere in this chapter for more information.

MIDI Controller	"MIDI controller" has two different usages in the ZR-76: 1. a physical device that produces MIDI messages, including the ZR's keyboard, pitch bend wheel, mod wheel and foot controls, as well as external devices that can be used to access the ZR's sounds. 2. the types of messages produced by devices such as those described in the first meaning, including Pitch Bend messages, Volume messages and many others. MIDI controllers are referred to by name and/or number. The ZR-76 responds to all MIDI controller messages.
MIDI In	Theon the ZR's rear panel that receives MIDI data transmitted to the ZR from an external MIDI device.
MIDI Merger	A device that allows a MIDI instrument to receive MIDI data from multiple transmitting instruments through a single MIDI In jack by combining all of the instruments' data into a single MIDI data stream. MIDI Mergers are available as self-contained devices; many MIDI patchbays also offer built-in MIDI merging. See "MIDI Patchbay."
MIDI Out	The jack on the ZR's rear panel that transmits MIDI data from the ZR to an external MIDI device.
MIDI Thru	The jack on the ZR's rear panel that passes along MIDI data received by the ZR's MIDI In jack.
Modulation	Any change made to a sound, sound wave or effect, either through pre-programmed automatic devices or real-time manual manipulation.
Modulator	Any device, real or software-based, that can be used to change a sound, sound wave or effect.
MSB	Many MIDI controllers use a pair of MIDI messages. The first—the MSB—for "Most Significant Byte"—chooses among 128 sets of MIDI values, each of which contains 128 values of its own. The LSB—for "Least Significant Byte"—selects one of the 128 values contained in each MSB set. The ZR-76 MIDI Implementation Chart in this chapter provides information on the proper use of MSB/LSB values with various MIDI controllers and the ZR-76.
Muted	The state of a drum kit zone when it's silenced, and the inaudible state of a phrase played by a zone in a variation or fill. The opposite of "active." Also the state of a track in the 16 Track Recorder when the FX/Mixdown Mute button has been pressed in order to silence it.
Noise	A software mechanism that produces a randomly fluctuating level, used to create random modulation in a sound or effect.
Normal LFO	A ZR-76 LFO whose rate is set to a fixed time value.
Overdubbing	Adding a new recording to material previously recorded on the track. In the ZR-76, this is accomplished through the use of the Add recording mode. Historically, this was achieved by making a copy of tape recording as new recording occurred, and combining both elements into a new recording.
Pan	The apparent location of a sound relative to the left and right speakers used in a stereophonic sound system.
Parameter	Any setting of the ZR-76 that can be changed or modified.
Parametric EQ	An equalizer for targeting specific frequency regions in a sound with pinpoint accuracy.
Paste	To copy data from one track to another, replacing any data already on the track. One of the 16 Track Recorder Copy functions.
Patchbay	A central junction box for audio or MIDI cables. A patchbay allows the interconnection of instruments, consoles, recorders and effect devices—and the changing of those connections—through electronic switching, eliminating the need for physically unplugging and re-plugging cables.
Phaser	Originally conceived as an approximation to the flange effect. All-pass filters are used in place of the delay lines. All-pass filters introduce delay by modifying signal phase, hence the name.
Pick-up	A few lead-in notes that occur prior to the beginning of a composition, or prior to a section of a composition.
Pitch Table	A set of tuning instructions that tell the ZR-76 what pitch to sound in response to the receipt of MIDI note-ons.
Portamento	The gliding in pitch of one note to another.
Pre-roll	To listen to music from a point prior to the location at which recording will begin, in order to allow a musician to become accustomed to the music before recording commences. Similar in use to a countoff.
Program Change	A MIDI message that instructs the ZR-76 to select the sound whose Program Change number corresponds to the Program Change's numerical value.

Punching	To re-record a portion of a track. To "punch in" is to start recording somewhere in the middle of a track; to "punch out" is to stop recording somewhere in the middle of a track.
Q	A bandwidth control that determines the width of the resonant peak at the center of the frequency band. This is equal to the cutoff frequency divided by the bandwidth. By raising the Q value, a narrower bandwidth is selected.
Quantize	To align the notes in a track to multiples of a selected metric value. For example, to quantize a track to quarter notes is to move each note in a track to its nearest quarter note.
Quantize To	The metric value to which notes on a track in the ZR-76 will be aligned when quantized.
RAM	For "Random Access Memory." A very fast type of temporary computer memory used in the ZR-76.
Recording Modes	The various ways that recording can occur in the 16 Track Recorder. In Replace mode, newly recorded music replaces music already on the selected track; in Add mode, new music is combined with music already on the track; Track Mix mode allows the recording of Mix and Pan knob movements onto the selected track.
Regeneration	A signal routing in which some of the output is mixed back into the input. The feedback of a delay line is also called regeneration.
Region	A section of a sequence determined by the settings of the Region From and Region To parameters. A sequence's region is the portion of the sequence that will be heard when the sequence is played back, and can determine an area of the sequence to be processed by the 16 Track Recorder Copy, Erase and Quantize functions.
Region From	The start point of a region, as in, "the region goes from here to here."
Region To	The end point of a region, as in, "the region goes from here to here."
Release Velocity	The speed at which you let go of keys on a keyboard. Release velocity sensitivity can be used as a modulator of ZR-76 sounds.
Replace Mode	A mode of recording in the 16 Track Recorder where new material recorded on a track replaces music previously recorded on the track. See "Recording Modes."
Resonant Peak	The frequency selected in an equalizer (EQ) or filter. Q may be as narrow as a single frequency or broadened, using a Q control, to include adjacent frequencies.
Reverb	Multiple echoes and reflections that combine to create an ambient effect that fades to silence in imitation of the manner in which sound naturally decays. Different devices have been used to simulate these ambiences: springs, plates, tubes and chambers. The ZR-76 uses digital processing to create new environments and simulate these classic ambiences.
Rhythm	A collection of complementary Drum Machine variations and fills. Each rhythm uses a stylistically appropriate drum kit sound.
Rhythm Name	The name of an individual Drum Machine rhythm.
Rhythm Track	A special track in the 16 Track Recorder that can play a rhythm from the Drum Machine, and can record drum or percussion notes played on the selected rhythm's drum kit.
Rhythm Type	One of the categories into which Drum Machine rhythms are sorted.
RhythmFinder	The method for selecting Drum Machine rhythms. Rhythms can be selected using the Rhythm Type and Rhythm Name knobs, or by holding down the Select Rhythm button and spelling the name of the desired rhythm on the ZR's keyboard.
ROM	For "Read-Only Memory." A type of permanent computer memory used in the ZR-76. ROM memory contains sounds and rhythms programmed by ENSONIQ.
RPN	For "Registered Parameter," a set of MIDI Controller values used for the adjustment of various pitch bend and tuning parameters.
Sample	A digital recording used as the basic building block of ZR-76 sounds.
Scoop	To selectively erase notes out of a track. Notes can be scooped out one-by-one, or all of a specified note's occurrences in a track can be scooped out at once.
Sequence	A piece of music recorded as MIDI data.
Sequencer	A device that records and plays back MIDI data.
Signal	A general term for sound.
Silence	
SMF	The abbreviation for "Standard MIDI File." See "Standard MIDI File."
Song	In the ZR-76, a song is a collection of up to 24 sequences, a song playlist if one has been

Song Memory	The area of RAM memory in which the ZR-76 holds song data. The ZR-76 song memory can hold as many songs as available memory allows. There is always a song active and available in the ZR's Song Editor.
Song Playlist	A list of sequences arranged into a song structure. In the ZR-76, to hear a completed song, you play its song playlist.
Sound	A sound in the ZR-76 is a collection of one or more layers of samples. Most standard ZR-76 sounds have a maximum of 16 layers, though split and/or layer single sounds may have more Drum and percussion kit sounds are a special type of sound in that they contain no layers of their own—each key uses a separate sound.
Sound Name	The name of an individual ZR-76 sound.
Sound Type	One of the categories into which sounds are sorted.
Sound Wave	A periodic disturbance in air pressure that causes the eardrum to vibrate in response.
SoundFinder	SoundFinder has two meanings in the ZR-76: 1. The method by which sounds (and presets) are selected in the ZR-76. You can select sounds using the Sound Type and Sound Name knobs, or by holding down the Select Sound button and spelling the desired sound's name on the ZR's keyboard. 2. The area in the ZR-76 where sounds, splits, layers and presets are created, edited and used; also, in a sense, the arena in which the Idea Pad and Drum Machine operate.
Split	A combination of two sounds, each played from its own area of the ZR's keyboard. Splits are created by pressing the Split button in SoundFinder.
Split Key	The key on the ZR's keyboard below which the split sound is heard in SoundFinder.
Standard MIDI File	A disk file containing a sequence recorded using the Standard MIDI File format. Standard MIDI File sequences can be played by any sequencer of any brand or type that supports the Standard MIDI File format.
Standard Sound	A ZR-76 sound program that is heard over the entire keyboard range. Standard sounds typically have up to 16 sound layers, though split and/or layer single sounds may have more.
Sync LFO	A ZR-76 LFO whose rate is synchronized to the ZR's clock source.
SysCTRL	Synonym for "system controller."
System Controller	Any of four assignable MIDI controllers available in the ZR-76, useful for enabling systemwide ZR response to non-standard MIDI controllers. Each system controller may be set to any MIDI controller number (000-127), and may be used in the modulation of sounds and effects. Each system controller may also be referred to as "SysCTRL" or "CTRL."
Template	A collection, stored in the ZR's FLASH memory, of 16 Track Recorder quantization settings.
Track	A receptacle for recorded MIDI data. Each musical performance recorded in the ZR-76 is recorded on a track. Each sequence in the 16 Track Recorder contains 16 tracks.
Track Mix Mode	A method of recording in the 16 Track Recorder that allows you to record Mix and Pan knob movements for a track onto the track. See "Recording Modes."
Transient	A quick, momentary burst of high-amplitude sound.
Value	A ZR-76 parameter setting.
Variation	A repeating drum or percussion phrase used in the Drum Machine.
Velocity	The force—interpreted in MIDI terms as speed—with which you strike keys on a keyboard. Velocity sensitivity can be used as a modulator of ZR-76 sounds and effects.
Voltage-Controlled Filter	A filter whose cutoff frequency is modulated by input voltage. Useful for creating distortion, wah wah, and envelope (auto) wah effects.
XLR Connector	A type of professional audio connector, with three pins: pin 1 is the ground reference, pin 2 carries the "hot" signal, and pin 3 carries the anti-phase "cold" signal. Designed for use with balanced inputs and outputs.
Zone	A range of keys on the keyboard within a drum kit sound that's allocated for the reproduction of an instrument (or type of instrument) in a real drum kit.